WELL CONSTRUCTION LOGS

TtNUS Wells

100-series
MW-101D
MW-101M
MW-101S
MW-102D
MW-102M
MW-102S
MW-103D
MW-103M
MW-104B
MW-104D
MW-104M
MW-104S
MW-110D
MW-110M
MW-110S
MW-111D
MW-111M
MW-111S
MW-111SG
MW-112B
MW-112D
MW-112M
MW-113B
MW-113M
MW-120S

Ferry Creek Piezometers
FCP-1
FCP-2
FCP-3
FCP-4
FCP-5
FCP-6
FCP-7
FCP-8

200-series
MW-201B
MW-201D
MW-202D
MW-202S
MW-202SG
MW-203D
MW-203S
MW-203SG
MW-204D

200-series (cont.)
MW-205D
MW-206D
MW-206M
MW-206MR
MW-206S
MW-206SR
MW-207B
MW-207D
MW-207DR
MW-207M
MW-207MR
MW-207S
MW-207SR
MW-208B
MW-208D
MW-208M
MW-208S
MW-209B
MW-209D
MW-209S
MW-210B
MW-210D (NEW)
MW-210S
MW-211B
MW-211D
MW-211M
MW-211S
MW-212B
MW-212D
MW-212M
MW-212S
MW-213B
MW-213DB
MW-213S
MW-213SG
MW-214B
MW-214D
MW-214M
MW-214S
MW-214SG
MW-215B
MW-215DB
MW-215S
MW-215SG
MW-216B
MW-216DB
MW-217B

200-series (cont.)
MW-217S
MW-217SG

300-series
MW-301B
MW-301D
MW-301S
MW-302B
MW-302D
MW-302S
MW-302SG
MW-303B
MW-304B
MW-304D
MW-304S
MW-305B
MW-305BR
MW-305D
MW-305DR
MW-305S
MW-305SR
MW-306B
MW-306DB
MW-307B
MW-307DB
MW-308B
MW-308DB
MW-309B
MW-309D
MW-309S
MW-310B
MW-310D
MW-310S
MW-311B
MW-311D
MW-311S
MW-312B
MW-312D
MW-312S
MW-313B
MW-313D
MW-313S

400-series
MW-401B
MW-401S
MW-402B
MW-402S

500-series
MW-501B
MW-501D
MW-501S
MW-502B
MW-502D
MW-502S
MW-503B
MW-503D
MW-503M
MW-503S
MW-504B
MW-504D
MW-504S
MW-505B
MW-505D
MW-505M
MW-505S
MW-506B
MW-506B replacement
MW-506D
MW-506M
MW-506S
MW-507B
MW-507D
MW-507S
MW-507SG
MW-508B
MW-508D
MW-508S
MW-508SG
MW-509M
MW-510M
MW-511M
MW-512M
MW-513S
MW-513SG
MW-514B
MW-514D
MW-514S
MW-514SG
MW-515S

500-series (cont.)
MW-515SG
MW-516M
MW-517S
MW-517SG
MW-518S
MW-518SG
MW-519S
MW-519SG
MW-520S
MW-520SG
MW-521S
MW-522S
MW-523S
MW-523SGD
MW-523SGM
MW-523SGS
MW-524B
MW-525S
MW-525SG
MW-526S
MW-526SGD
MW-526SGM
MW-526SGS
MW-527S
MW-527SG
MW-528S
MW-528SG
MW-529S
MW-529SG
MW-530S
MW-531S
MW-532S
MW-533B
MW-533D
MW-533S
MW-534S
MW-534SG
MW-535S
MW-535SG
MW-536S
MW-536SG

Aquifer Test Well
TW-01

WELL CONSTRUCTION LOGS

Foster-Wheeler OU1 Data

(post closure wells)

PC-01B
PC-01D
PC-01M
PC-01S
PC-02B
PC-02D
PC-02M
PC-02S
PC-03B
PC-03D
PC-03S
PC-04B
PC-04D
PC-04S
PC-05B
PC-05D
PC-05M
PC-05S
PC-06B
PC-06D
PC-06M
PC-06S
PC-07S
PC-08B
PC-08D
PC-08S
PC-09D
PC-09S
PC-10B
PC-10D
PC-10M
PC-10S
PC-11B
PC-11D
PC-11M
PC-11S
PC-12B
PC-12D
PC-12S
PC-13B
PC-13D
PC-13M
PC-13S

(post closure wells cont.)

PC-14B
PC-14D
PC-14S
PC-15B
PC-15D
PC-15S
PC-16B
PC-16D
PC-16M
PC-16S

(recovery wells)

RW1
RW2
RW3
RW5
RW6

Conestoga-Rovers

375 Barnum Ave.

CRA-1D (SB-1)
CRA-1S (SB-1)
CRA-2D(SB-2)
CRA-2S
CRA-3(SB-6)
CRA-4S
CRA-6D (SB-9)
CRA-6S (SB-9A)
CRA-7 (SB-11)
CRA-8(SB-13)

540 Longbrook Ave.

MW-1
MW-2A
MW-3A
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-BR-1
MW-BR-2
MW-X
MW-Y
MW-Z
PZ-11
PZ-12
PZ-13
PZ-14

Weston Wells

WA120A6-E512-541

The Dock

MW-1B
MW-1M
MW-1S
MW-2S
MW-3S
MW-4B
MW-4M (MW-4D)
MW-4S

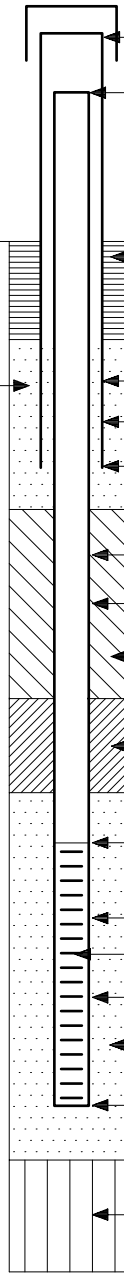
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-101D
CLIENT: U.S. EPA
BORING NO: MF-MW-101D
CONTRACTOR: Penn Drill
DRILLER: Earl Pye
BORING LOCATION: Morgan Francis
LOGGED BY: Denis Mac Dougall
DATE: 04/07/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 10.71 ft

ELEVATION TOP OF RISER PIPE 10.56 ft

GROUND ELEVATION 8.5 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.05
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.11
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.8 ft
I.D. OF PROTECTIVE CASING (In.)	0.35 ft
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	4.95 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6.1 ft
RISER PIPE (In.) I.D.: 2” O.D.: 2 3/8”	
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	54.8 ft
TYPE OF SEAL	Bentonite Tablets
DEPTH BOTTOM OF SEAL (Ft.)	57.1 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	58.9 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2” O.D.: 2 3/8”	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	68.9 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	69.7 ft
TYPE OF BACKFILL BELOW FILTER PACK	Bentonite Tablets
END OF BORING (Ft.)	72.4 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. sites
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-101M
CLIENT: US EPA
BORING NO: MF-MW-101M
CONTRACTOR: Penn. Drilling
DRILLER: Earl Pye
BORING LOCATION: Morgan Francis property
LOGGED BY: Denis MacDougall
DATE: 04/12/94
CHECKED BY:
DATE:

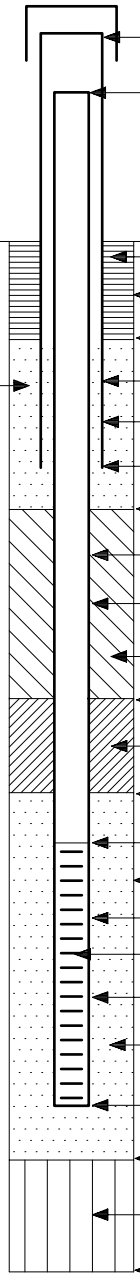
ELEVATION TOP OF PROTECTIVE CASING 11.36 ft

ELEVATION TOP OF RISER PIPE 11.21 ft

GROUND ELEVATION 9.1 ft

SAND DRAIN LAYER

WL = 7.6 ft from top of PVC



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.05 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.15 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.9 ft
I.D. OF PROTECTIVE CASING (In.)	3.5 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	4.95 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5 ft. 10 in.
RISER PIPE (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Grout
DEPTH TOP OF SEAL (Ft.)	17 ft 1 in
TYPE OF SEAL	Bentonite Tablets
DEPTH BOTTOM OF SEAL (Ft.)	19 ft 2 in
DEPTH TOP OF PERVIOUS SECTION (Ft.)	21 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	26 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	27 ft 1 in

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

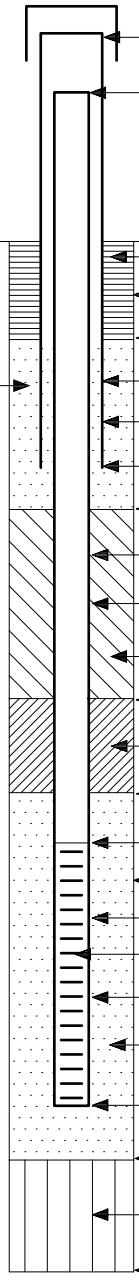
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-101S
CLIENT: US EPA
BORING NO: MF-MW-101S
CONTRACTOR: Penn. Drilling
DRILLER: Earl Pye
BORING LOCATION: Morgan Francis Property
LOGGED BY: John Verban
DATE: 04/12/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 10.65 ft

ELEVATION TOP OF RISER PIPE 10.51 ft

GROUND ELEVATION 8.6 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.04 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.87 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	5 ft
I.D. OF PROTECTIVE CASING (In.)	
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	4.96 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6 ft
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	6 ft
TYPE OF SEAL	Bentonite
DEPTH BOTTOM OF SEAL (Ft.)	8.3 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	9.4 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	14.4 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	14.4 ft
TYPE OF BACKFILL BELOW FILTER PACK	Silica sand
END OF BORING (Ft.)	15.4 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

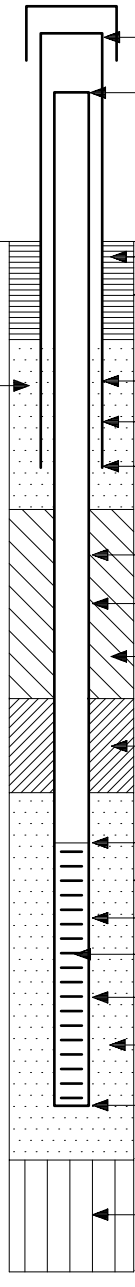
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Sites
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-102D
CLIENT: US EPA
BORING NO: MF-MW-102D
CONTRACTOR:
DRILLER: Penn Drilling
BORING LOCATION: Morgan Francis property
LOGGED BY: Bill Wentworth
DATE: 04/27/84-04/26/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 12.05 ft

ELEVATION TOP OF RISER PIPE 11.80 ft

GROUND ELEVATION 9.6 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.20 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.97 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.5’
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.0’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6’
RISER PIPE (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	96’
TYPE OF SEAL	Clay
DEPTH BOTTOM OF SEAL (Ft.)	99’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	101.5
DIAMETER OF BOREHOLE (In.)	
TYPE OF PERVIOUS SECTION	PVC screen
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	111.5’
DEPTH BOTTOM OF FILTER PACK (Ft.)	115.0’
TYPE OF BACKFILL BELOW FILTER PACK	Sand
END OF BORING (Ft.)	115’

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

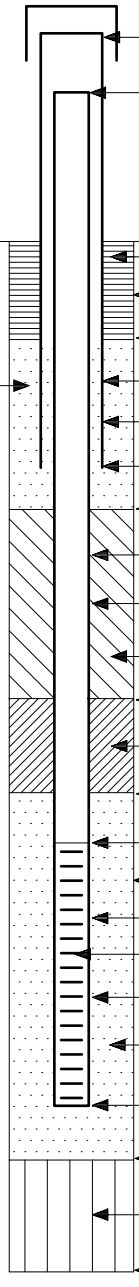
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. sites
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-102M
CLIENT: US EPA
BORING NO: MF-MW-102M
CONTRACTOR: Penn. Drilling
DRILLER:
BORING LOCATION: Morgan Francis property
LOGGED BY: Bill Wentworth
DATE: 04/28/94-04/29/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 11.73 ft

ELEVATION TOP OF RISER PIPE 11.30 ft

GROUND ELEVATION 9.6 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.10 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.63 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.5’
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.0’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6.0’
RISER PIPE (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	15.5’
TYPE OF SEAL	Clay
DEPTH BOTTOM OF SEAL (Ft.)	17.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	20’
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	PVC screen
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	30’
DEPTH BOTTOM OF FILTER PACK (Ft.)	32’
TYPE OF BACKFILL BELOW FILTER PACK	Sand
END OF BORING (Ft.)	32’

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

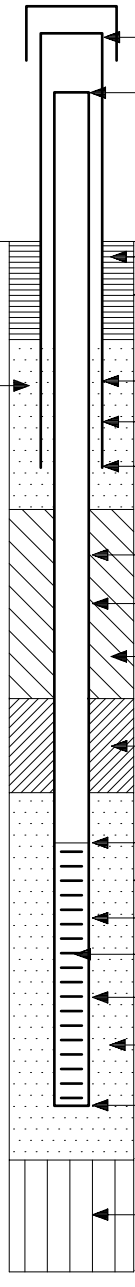
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. sites
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-102S
CLIENT: US EPA
BORING NO: MF-MW-102S
CONTRACTOR: Penn. Drilling
DRILLER:
BORING LOCATION: Morgan Francis property
LOGGED BY: Bill Wentworth
DATE: 04/28/94-04/29/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 11.74 ft

ELEVATION TOP OF RISER PIPE 11.40 ft

GROUND ELEVATION 9.6 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.07 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.72 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	2.5’
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.8’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	Sand
RISER PIPE (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Sand
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Clay
DEPTH BOTTOM OF SEAL (Ft.)	5.0’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.0’
DIAMETER OF BOREHOLE (In.)	6”
TYPE OF PERVIOUS SECTION	PVC screen
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	10’
DEPTH BOTTOM OF FILTER PACK (Ft.)	10.5’
TYPE OF BACKFILL BELOW FILTER PACK	Sand
END OF BORING (Ft.)	10.5’

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

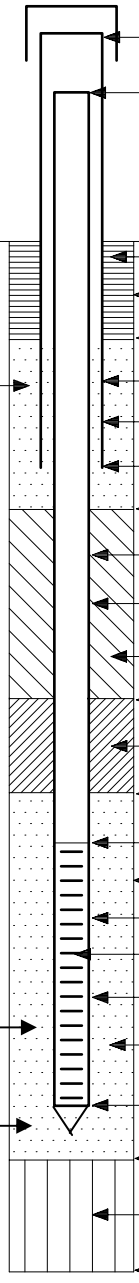
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. sites
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-103D
CLIENT: US EPA
BORING NO: MF-MW-103D
CONTRACTOR: Penn Drilling Co.
DRILLER: E. Pye
BORING LOCATION: Morgan Francis center
LOGGED BY: K. Jalkut
DATE:
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 15.59 ft

ELEVATION TOP OF RISER PIPE 15.47 ft

GROUND ELEVATION 13.0 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.27 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	2.14 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	0-4.5’
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.5-5’
I.D. OF PROTECTIVE CASING (In.)	
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	~ 5-5.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6’
RISER PIPE (In.) I.D.	2 in O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	66.5 ft
TYPE OF SEAL	Bentonite Tablets
DEPTH BOTTOM OF SEAL (Ft.)	68 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	73 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.	2 in O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica sand (00N)
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	83 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	84 ft
TYPE OF BACKFILL BELOW FILTER PACK	Bent. Slurry 108-88’; Bent. Chips/sand 88-84’
END OF BORING (Ft.)	108 ft

SAND DRAIN LAYER

Centralizer – below mid screen

Threaded End Cap

Cored Bedrock – 88 ft-108’
Failed packer test – backfilled 108-84 ft. Installed deep overburden well.

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

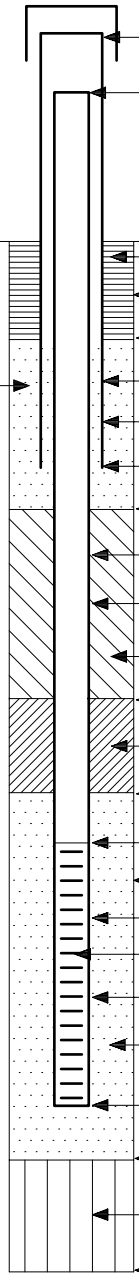
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Sites
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-103M
CLIENT: US EPA
BORING NO: MF-MW-103M
CONTRACTOR: Penn. Drilling Co.
DRILLER: Earl Pye
BORING LOCATION: Morgan Francis property
LOGGED BY:
DATE: 04/28/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 15.13 ft

ELEVATION TOP OF RISER PIPE 15.02 ft

GROUND ELEVATION 12.6 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.46 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	2.33 ft
TYPE OF SURFACE SEAL	
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	
RISER PIPE (In.) I.D.: 2.0”	O.D.: 2.375”
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	23’
TYPE OF SEAL	Bentonite Pellets
DEPTH BOTTOM OF SEAL (Ft.)	26’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	28’
DIAMETER OF BOREHOLE (In.)	6”
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2.0”	O.D.: 2.25”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand, No. 20-30
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	38’
DEPTH BOTTOM OF FILTER PACK (Ft.)	40’
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	40’

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT OVERBURDEN MONITORING WELL CONSTRUCTION LOG — TETRA TECH NUS, INC.

PROJECT NAME:	Raymark Offsite Drilling	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-104B
CLIENT:	U.S EPA, Region I	BORING NO:	SB-104B
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	S. Bray
LOGGED BY:	D. Whalen	DATE:	2-15-99
CHECKED BY:		DATE:	

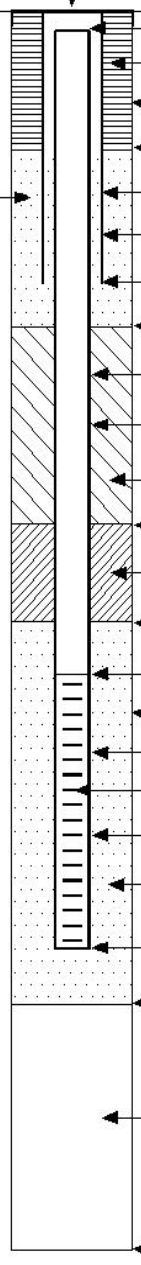
BORING LOCATION: Morgan Francis Property, 104 Cluster

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 10.96'

ELEVATION TOP OF RISER PIPE: 10.30'

GROUND ELEVATION: 8.6'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	2.36'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.0'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	84.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	87.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	87.9'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.02" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	117.9'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	119.7'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS form 0061

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

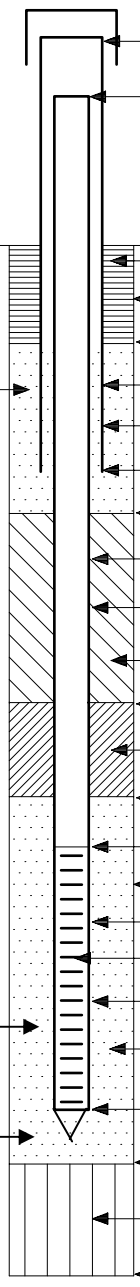
PROJECT NAME:	Raymark Industries Inc. Site	PROJECT NO:	0890
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-104D
CLIENT:	US EPA	BORING NO:	MF-MW-104D
CONTRACTOR:	Penn. Drilling	DRILLER:	Dick Miller
LOGGED BY:	Joseph Mello	DATE:	04/20/94
CHECKED BY:		DATE:	
BORING LOCATION:	Morgan Francis property		

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 11.20 ft

ELEVATION TOP OF RISER PIPE 11.03 ft

GROUND ELEVATION 8.8 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.20 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.99 ft
TYPE OF SURFACE SEAL	Portland Cement Grout
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.5
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.0
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5
RISER PIPE (In.) I.D.: 2"	O.D.: 2 7/8"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	64.5
TYPE OF SEAL	Bentonite Pellets
DEPTH BOTTOM OF SEAL (Ft.)	66.8'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	69.0'
DIAMETER OF BOREHOLE (In.)	
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Coarse sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	79.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	80.0
TYPE OF BACKFILL BELOW FILTER PACK	Bentonite Pellets
END OF BORING (Ft.)	~81 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS, INC.

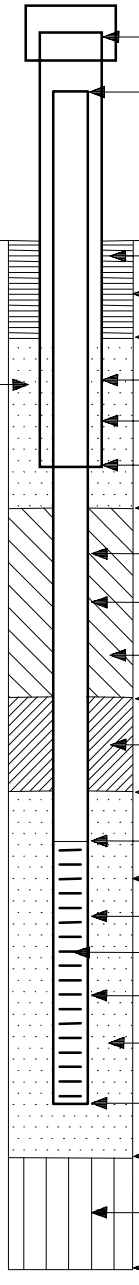
PROJECT NAME:	Raymark Industries Inc. Sites	PROJECT NO:	0890
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-104M
CLIENT:	US EPA	BORING NO:	MF-MW-104M
CONTRACTOR:	Penn Drilling	DRILLER:	Dick Miller
LOGGED BY:	Joseph Mello (BEI)	DATE:	04/20/94
CHECKED BY:		DATE:	
BORING LOCATION:	Morgan Francis property		

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 11.56 ft

ELEVATION TOP OF RISER PIPE: 11.44 ft

GROUND ELEVATION: 9.4 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.10 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.99 ft
TYPE OF SURFACE SEAL	Portland Cement Grout
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.5’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.0’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5’
RISER PIPE (In.) I.D.: 2” O.D.:	2 3/8 ”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	19.0’
TYPE OF SEAL	Bentonite Pellets
DEPTH BOTTOM OF SEAL (Ft.)	21.3’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	23.5’
DIAMETER OF BOREHOLE (In.)	6 ¾”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2” O.D.:	2 3/8”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Coarse Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	27.5’
DEPTH BOTTOM OF FILTER PACK (Ft.)	29.0’
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	29.0’

GENERAL NOTE

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Indicates that Surveyed Ground Elevation Not

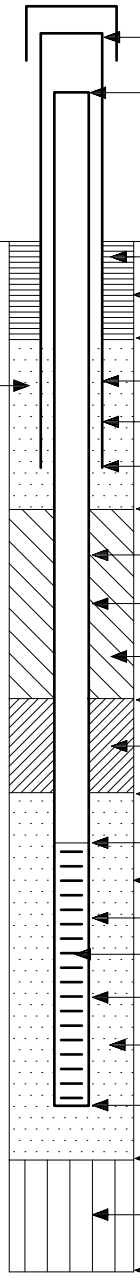
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-104S (amended)
CLIENT: US EPA
BORING NO: MF-MW-104S
CONTRACTOR: Penn. Drilling
DRILLER: D. Miller, Jim Adams, Jim Lang
BORING LOCATION: Morgan Francis property
LOGGED BY: K.Jalkut, Joe Mello
DATE: 04/20/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 11.17 ft

ELEVATION TOP OF RISER PIPE 10.99 ft

GROUND ELEVATION 8.7 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.45’
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	2.24’
TYPE OF SURFACE SEAL	Portland Cement (0-1’) Bentonite chips/gravel (1-3’)
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	3 ft
I.D. OF PROTECTIVE CASING (In.)	4 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	3.55 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.4 ft
RISER PIPE (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Fine sand
DEPTH TOP OF SEAL (Ft.)	4.4 ft
TYPE OF SEAL	Bentonite Pellets
DEPTH BOTTOM OF SEAL (Ft.)	5.3 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.5 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Fine sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	10.5 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	11.0 ft

Note:
Based on comment on original well construction log for MF-MW204S, construction was amended. J. Adams cut down a new piece of steel protective casing so that it was only 6 ft in length. Old protective casing and well construction materials removed from 0 to 3 ft.
- New protective casing advanced to 3.55 ft.
- Coarse bentonite chips and bentonite granules (crumbles) added 3 ft to 1 ft (High water table)
- Portland cement mixed with sand added from 1 ft to 0 ft
- See original well construction log

NM = not measured
N/A = not applicable

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

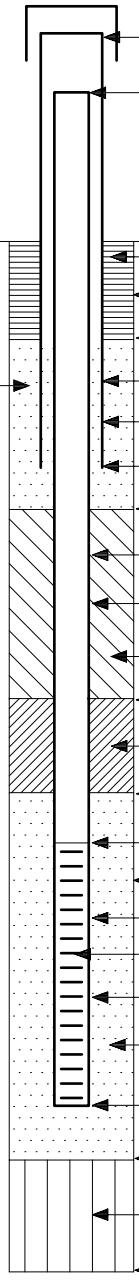
PROJECT NAME:	Raymark Industries Inc. site	PROJECT NO:	0890
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-110D
CLIENT:	US EPA	BORING NO:	MW-110D
CONTRACTOR:	Penn. Drilling Co.	DRILLER:	Earl Pye
LOGGED BY:	K.Jalkut	DATE:	04/18/94-04/19/94
CHECKED BY:		DATE:	
BORING LOCATION:	Spada – Blue Goose Resturant		

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 9.75 ft

ELEVATION TOP OF RISER PIPE 9.48 ft

GROUND ELEVATION 9.6 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	0.5 IN
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	N/A
TYPE OF SURFACE SEAL	Portland Cement 2'-0' Bent. Chips 4'4"-2'
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4 ft 4 in
SAND DRAIN LAYER — I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Steel – 1ft, Galv. Steel-stovepipe 4.5 ft
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.5 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6 ft
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bent. Slurry 35.5-17'; Bent. Chips/sand 17'-6 ft
DEPTH TOP OF SEAL (Ft.)	35.5 ft
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	38.5 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	42.5 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" slot openings
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica sand (00N)
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	52.5 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	53.5 ft
TYPE OF BACKFILL BELOW FILTER PACK	Bentonite Chips
END OF BORING (Ft.)	55 ft

Note:
- high water table precluded use of cement below 2 ft. water table 2' (04/19/94) (not lower aquifer)
- driller added bentointe slurry to 0 ft on 04/18/94 – settled 17' on 04/19/94
- completed construction on 04/19/94
- during 04/18/94 construction, driller added an extra foot for the seal (inadvertently) and 2 extra feet for filter pack
- centralizer installed mid screen
- threaded well point at base of previous section
- bedrock @ ~53 ft 6 in
- length of protective casing 5.5 ft

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

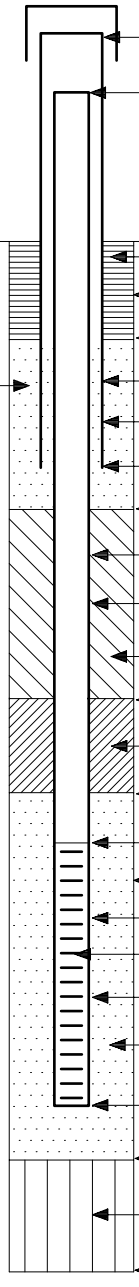
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-110M
CLIENT: US EPA
BORING NO: SP-MW-110M
CONTRACTOR: Penn. Drilling
DRILLER: P. Waddell
BORING LOCATION: Spada Property
LOGGED BY: D. MacDougall
DATE: 04/25/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 9.85 ft

ELEVATION TOP OF RISER PIPE 9.28 ft

GROUND ELEVATION 9.7 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	0.3 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	0.5 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.9 ft
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Aluminum Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.2 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.9 ft
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	14.8 ft
TYPE OF SEAL	Bentonite Pellets
DEPTH BOTTOM OF SEAL (Ft.)	16.0 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	18.0 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	28 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	28.8 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

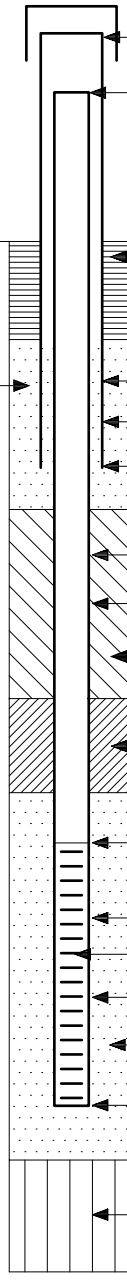
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: SP-MW-110S
CLIENT: US EPA
BORING NO: SP-MW-110S
CONTRACTOR: Penn Drilling
DRILLER:
BORING LOCATION: Behind Blue Goose
LOGGED BY: Bill Wentworth
DATE: 05/02/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING: 9.96 ft

ELEVATION TOP OF RISER PIPE: 9.62 ft

GROUND ELEVATION: 9.8 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	+ 0.1 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	0.35 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	1.5’ clay chips
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.0 clay chips
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	4.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	
RISER PIPE (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Sand
DEPTH TOP OF SEAL (Ft.)	5.0’
TYPE OF SEAL	Clay
DEPTH BOTTOM OF SEAL (Ft.)	6.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	8.0’
DIAMETER OF BOREHOLE (In.)	6”
TYPE OF PERVIOUS SECTION	PVC screen
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2”	O.D.: 2 3/8”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	14’
DEPTH BOTTOM OF FILTER PACK (Ft.)	15.0’
TYPE OF BACKFILL BELOW FILTER PACK	Sand
END OF BORING (Ft.)	15’

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

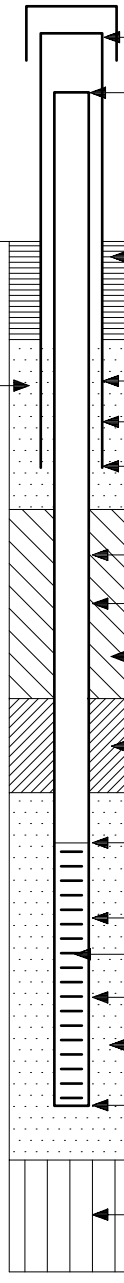
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-111D
CLIENT: US EPA
BORING NO: SP-MW-111D
CONTRACTOR: Penn Drilling
DRILLER: P.Waddell
BORING LOCATION: Spada Property
LOGGED BY: Denis MacDougall (HNUS)
DATE: 04/28/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 12.49 ft

ELEVATION TOP OF RISER PIPE 12.33 ft

GROUND ELEVATION 10.5 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	1.9 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.75 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.8 ft
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.1 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6.1 ft
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	73.5 ft
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	76.8 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	79.3 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	89.3 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	90.4 ft
TYPE OF BACKFILL BELOW FILTER PACK	Bentonite Pellets
END OF BORING (Ft.)	91.0 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

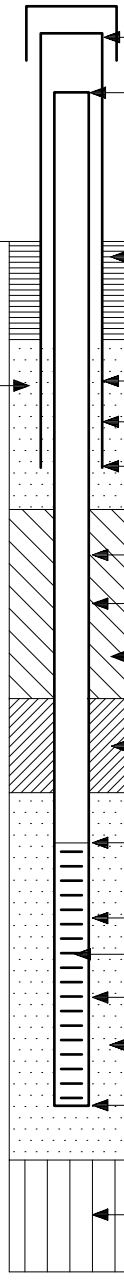
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-111M
CLIENT: US EPA
BORING NO: SP-MW-111M
CONTRACTOR: Penn Drilling
DRILLER: P.Waddell
BORING LOCATION: Spada Property
LOGGED BY: D.MacDougall (HNUS)
DATE: 04/29/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 12.98 ft

ELEVATION TOP OF RISER PIPE 12.70 ft

GROUND ELEVATION 10.8 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.05 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.80 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	4.7 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.95 ft
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	19.9 ft
TYPE OF SEAL	Bentonite Pellets
DEPTH BOTTOM OF SEAL (Ft.)	22.1 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	24.0 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	34.0 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	35.5 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

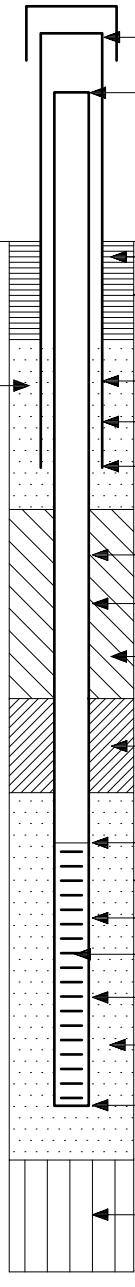
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-111S
CLIENT: US EPA
BORING NO: SP-MW-111S
CONTRACTOR: Penn Drilling
DRILLER: P.Waddell
BORING LOCATION: Spada property
LOGGED BY: D.MacDougall (HNUS)
DATE: 05/03/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 12.30 ft

ELEVATION TOP OF RISER PIPE 12.03 ft

GROUND ELEVATION 10.3 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.05 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.90 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	2.9 ft
I.D. OF PROTECTIVE CASING (In.)	4 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	3.45 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.0 ft
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	4.0 ft
TYPE OF SEAL	Bentonite Pellets
DEPTH BOTTOM OF SEAL (Ft.)	4.9 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.006" factory slotted
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	10.0 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	10.5 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME:	Raymark OU-2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-111SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-111SG
CONTRACTOR:	ADT	DRILLER:	Marques Larabie
LOGGED BY:	J. Lambert	DATE:	10/3/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

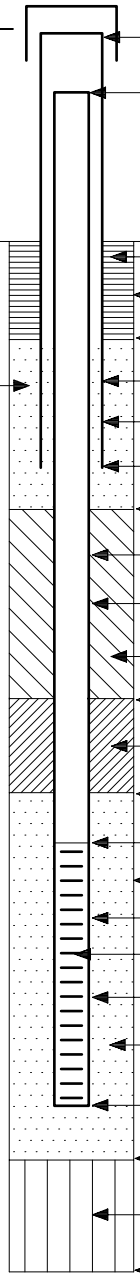
BORING LOCATION: Next to Ferry Creek on Ferry (next to ski shop)

PAGE: 1 OF 1

Elevation Top of Protective Casing 13.58 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 10.4 feet



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	3.0’
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	2.5’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Steel casing
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: ¾”	O.D.: 1 1/8”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	4.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	4.9’
DIAMETER OF BOREHOLE (In.)	0-5’ = 5”, 5-6’ = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 2”	O.D.: 2.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	6.0’
DEPTH BOTTOM OF FILTER PACK (Ft.)	6.0’
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	6.0’

Note – see pg. 83 of rig 2 log # 3 for screen details.

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. Site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-112B
CLIENT: US EPA
BORING NO: SP-MW-112B
CONTRACTOR: Penn. Drilling
DRILLER: Paul Waddell
BORING LOCATION: Spada Property
LOGGED BY: Denis MacDougall
DATE: 04/18/94
CHECKED BY:
DATE:

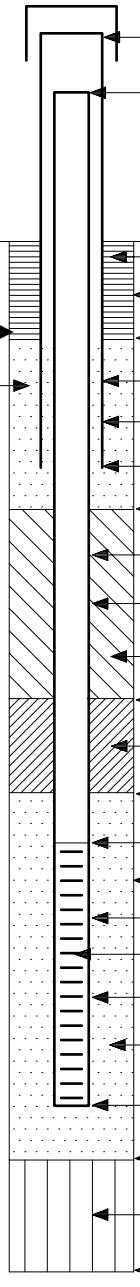
ELEVATION TOP OF PROTECTIVE CASING 7.06 ft

ELEVATION TOP OF RISER PIPE 6.41 ft

GROUND ELEVATION 7.0 ft

Depth bottom of surface seal 2.0 ft
Type of fill Bentonite Chips

SAND DRAIN LAYER



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	0.10 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	0.5 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.5 ft
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.5 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	7.3 ft
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	41 ft 6 in
TYPE OF SEAL	Volclay Tablets
DEPTH BOTTOM OF SEAL (Ft.)	45 ft 1 in
DEPTH TOP OF PERVIOUS SECTION (Ft.)	47 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	57 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	58 ft
TYPE OF BACKFILL BELOW FILTER PACK	Volclay Chips
END OF BORING (Ft.)	63 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT OVERBURDEN MONITORING WELL CONSTRUCTION LOG — TETRA TECH NUS, INC.

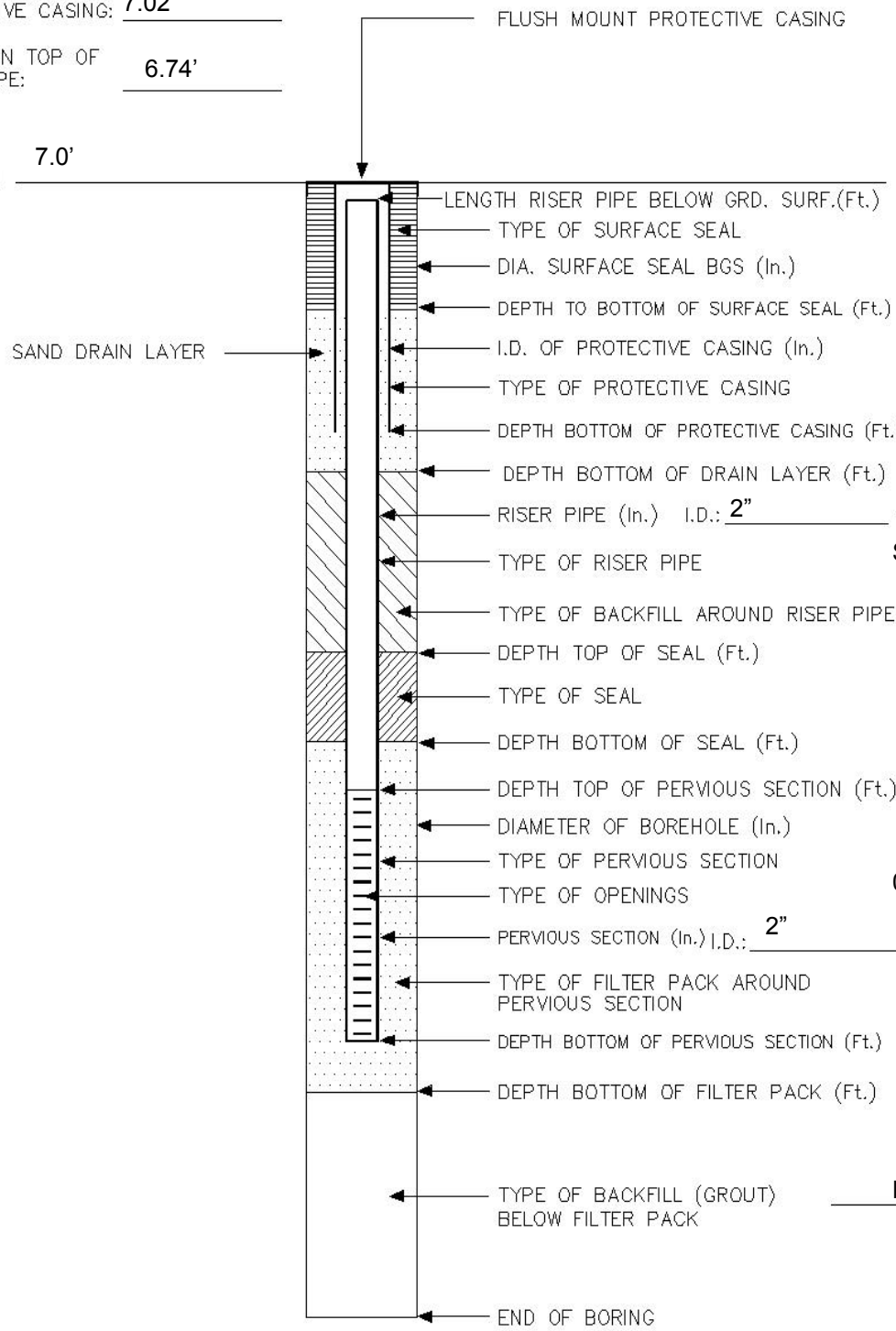
PROJECT NAME:	Raymark OU2	PROJECT NO:	4847
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-112D
CLIENT:	U.S EPA, Region I	BORING NO:	SP-MW-112D
CONTRACTOR:	Penn Drilling	DRILLER:	P. Waddell
LOGGED BY:	D. MacDougal	DATE:	4-21-94
CHECKED BY:		DATE:	
BORING LOCATION:	Spada Property		

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 7.02'

ELEVATION TOP OF RISER PIPE: 6.74'

GROUND ELEVATION 7.0'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.26'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.8'
I.D. OF PROTECTIVE CASING (In.)	6"
TYPE OF PROTECTIVE CASING	Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.4'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	8.2'
RISER PIPE (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	33.5'
TYPE OF SEAL	Bentonite tablets
DEPTH BOTTOM OF SEAL (Ft.)	35.8'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	38'
DIAMETER OF BOREHOLE (In.)	6"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.01" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	42'
DEPTH BOTTOM OF FILTER PACK (Ft.)	42.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	42.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS form 0061

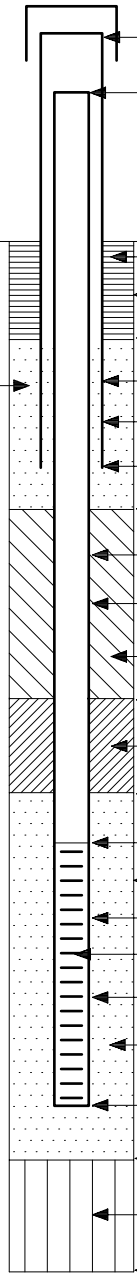
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. site
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-112M
CLIENT: US EPA
BORING NO: SP-MW-112M
CONTRACTOR: Penn Drilling
DRILLER: P.Waddell
BORING LOCATION: Spada property
LOGGED BY: D. MacDougall
DATE: 04/20/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 7.27 ft

ELEVATION TOP OF RISER PIPE 6.73 ft

GROUND ELEVATION 7.1 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	0.0 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	0.5 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.9 ft
I.D. OF PROTECTIVE CASING (In.)	6 in
TYPE OF PROTECTIVE CASING	Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.5 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.9 ft
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	19.3 ft
TYPE OF SEAL	Bentonite Pellets
DEPTH BOTTOM OF SEAL (Ft.)	21.9 ft
DEPTH TOP OF PERVIOUS SECTION (Ft.)	24 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	34 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	35.3’
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	35.3 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

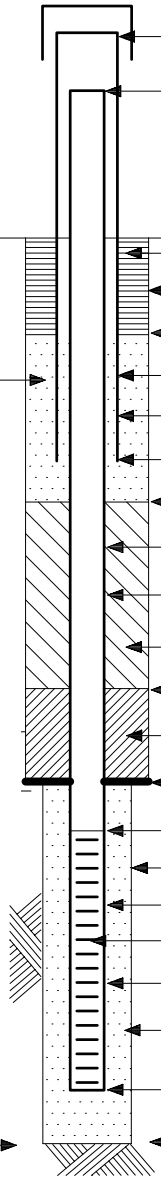
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. sites
PROJECT NO: 0890
PROJECT LOCATION: Stratford, CT
WELL NO: MW-113B-SP
CLIENT: US EPA
BORING NO: SP-MW-113B
CONTRACTOR: Penn. Drilling
DRILLER: E. Pye
BORING LOCATION: Spada property
LOGGED BY: Joseph Mello
DATE: 04/29/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 9.20 ft

ELEVATION TOP OF RISER PIPE 8.96 ft

GROUND ELEVATION 7.1 ft



SAND DRAIN LAYER

END OF BORING @ 108.0 Ft.

LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	1.83 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.58 ft
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	2.5”
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6’
RISER PIPE (In.) I.D.: 2” O.D.:	2 3/8”
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	92.5’
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	94.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	96.5’
DIAMETER OF BOREHOLE (In.)	6”
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2” O.D.:	2 3/8”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	#N00 fine sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	106.5’
DEPTH BOTTOM OF FILTER PACK (Ft.)	108.0 ft

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

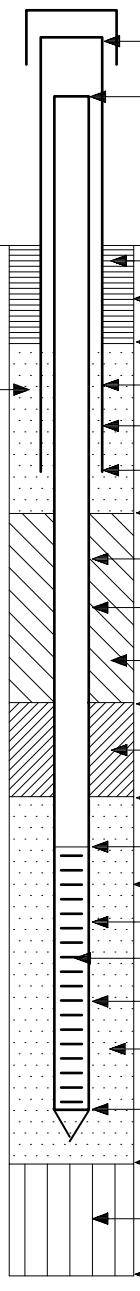
PROJECT NAME:	Raymark Industries Inc. site	PROJECT NO:	0890
PROJECT LOCATION:	Stratford, CT	WELL NO:	SP-MW-113M
CLIENT:	US EPA	BORING NO:	SP-MW-113M
CONTRACTOR:	Penn Drilling	DRILLER:	Earl Pye
LOGGED BY:	K.Jalkut	DATE:	05/02/94-05/03/94
CHECKED BY:		DATE:	
BORING LOCATION:	Turnpike Liquors-Stratford, CT		

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 9.14 ft

ELEVATION TOP OF RISER PIPE 8.76 ft

GROUND ELEVATION 7.1 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	1.95 ft
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.60 ft
TYPE OF SURFACE SEAL	Portland Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1 ft
I.D. OF PROTECTIVE CASING (In.)	4 in
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5 ft
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	
RISER PIPE (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry (Grout)
DEPTH TOP OF SEAL (Ft.)	23 ft 8 in
TYPE OF SEAL	Bentonite Tablets
DEPTH BOTTOM OF SEAL (Ft.)	26 ft 1 in
DEPTH TOP OF PERVIOUS SECTION (Ft.)	28 ft
DIAMETER OF BOREHOLE (In.)	6 in
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010” slot opening
PERVIOUS SECTION (In.) I.D.: 2 in	O.D.: 2 3/8 in
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Silica Sand – 00N
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	38 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	38.5 ft
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	N/A

Note:

▽ @ ~ 1 ft (05/02/94)

Static water level (05/03/94) 1’ 3 in

Precludes use of cement below 1 ft for a surface seal

Portland Cement – 1’ to 0 ft
Bentonite Chips and crumbles granular - 4’6” to 1 ft
Sand Drain – 6’1” TO 4’6”
Bent. Chips - 7’ to 6’1”
Bent. Slurry – 23’8” to 7’
Lower aquifer – 6.27 ft (05/03/94)

Centralizer used – mid. Screen

Threaded end plug

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

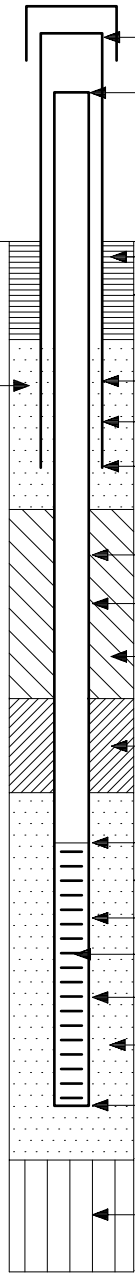
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Industries Inc. site
PROJECT NO: 0310
PROJECT LOCATION: Stratford, CT
WELL NO: BC-MW-120
CLIENT: US EPA
BORING NO: SP-BC-120
CONTRACTOR: Pennsylvania Drilling
DRILLER: Dick & Ted Miller
BORING LOCATION: Housatonic Boat Club
LOGGED BY: Joseph Mello
DATE: 04/05/94
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 8.20 ft

ELEVATION TOP OF RISER PIPE 8.00 ft

GROUND ELEVATION 8.3 ft



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	Flush to ground
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	0.2 ft
TYPE OF SURFACE SEAL	
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	
I.D. OF PROTECTIVE CASING (In.)	6”
TYPE OF PROTECTIVE CASING	Stainless steel/iron
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	
RISER PIPE (In.) I.D.: 2”	O.D.: 2 5/16”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	
DEPTH TOP OF SEAL (Ft.)	6’
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	8.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	11.9’
DIAMETER OF BOREHOLE (In.)	6 6/8”
TYPE OF PERVIOUS SECTION	PVC casing
TYPE OF OPENINGS	.010” factory slotted
PERVIOUS SECTION (In.) I.D.: 2”	O.D.: 2 5/6”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	21.9 ft
DEPTH BOTTOM OF FILTER PACK (Ft.)	22.0’
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	22.0’

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

ALL MEAS. TO TOP OF RISER.

DEPTH TO WATER INSIDE PIEZOMETER = 3.33'
" " " OUTSIDE " = 3.25'
" " SEDIMENT SURFACE = 7.00'

TIME OF MEAS. = 1153 HRS.

TOTAL LENGTH OF SCREEN & RISER = 21.0'.

SCREEN FROM 14-12' BELOW SED. SURFACE (BSS).

DEVELOPEMENT WATER HAS A LIGHT BROWN SILT WHICH DECREASES IN QUANTITY DURING DEVEL.. NO NOTICEABLE SHEEN NOTED. A LIGHT H_2S ODOR NOTED. TRACE AMT. OF FINE SAND NOTED IN DEV. H_2O.

- NOTE: ARTESIAN CONDITION NOTED DURING PIEZOMETER CONSTRUCTION WITH TOP OF RISER APPROX. 2' ABOVE CREEK WATER SURFACE.

DEPTH TO WATER INSIDE PIEZOMETER = 2.04'
" " " OUTSIDE " = 2.45' } @ 0915
" " TOP OF SEDIMENT = 4.50'

(ALL MEAS. TO TOP OF RISER)

- DURING CONSTRUCTION, VISUAL ARTESIAN CONDITION NOTED W/ TOP OF RISER APPROX. 1.25-1.5' ABOVE CREEK WATER SURFACE.

A LIGHT BROWN SILT WAS NOTED IN THE DEVELOPEMENT WATER. THE TURBIDITY DECREASED SLIGHTLY DURING DEVELOPOMENT. NO SHEEN NOTED. MODERATE H_2S ODOR NOTED.

FCP-2

(ALL MEAS. TO TOP OF RISER)

ORG. DEBRIS NOTED

LT. SHEEN NOTED.

DEPTH TO WATER INSIDE = 4.09' } @ 1053 HRS.
" " " OUTSIDE = 3.67

DEPTH TO TOP OF SEDIMENT SURFACE = 7.19'

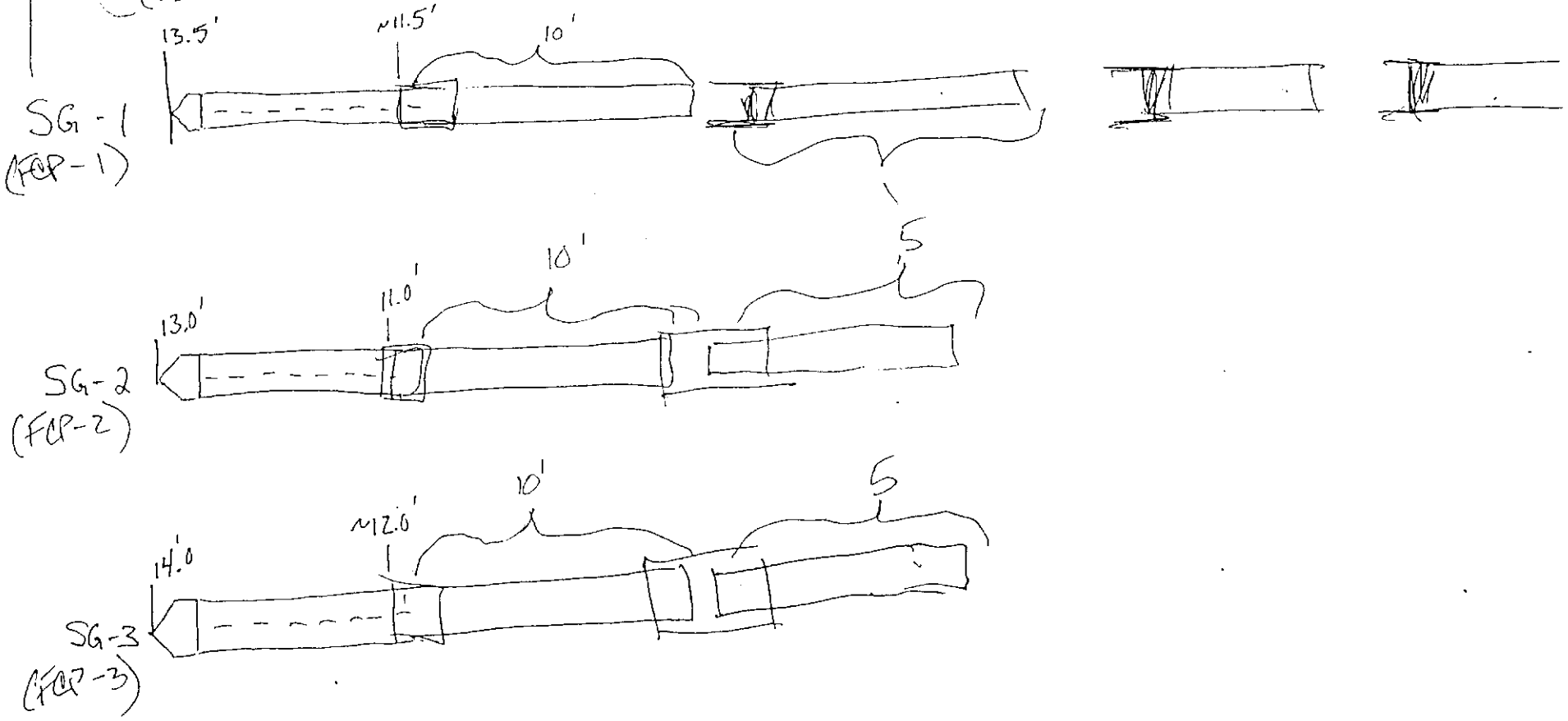
PID H.S. = 330.

H_2S ODOR VERY STRONG

COLLECTED SAMPLE @ 1130.
+ DUPLICATE @ 1135.

INITIAL LEVEL H_2O = VERY DARK GREY - BLACK WITH A LIGHT SHEEN NOTED. DURING 3 GAL PURGE, TURBIDITY DECREASES SLIGHTLY (AS VISUALLY NOTED) AS DOES THE SHEEN. WATER HAS A VERY STRONG H_2S ODOR.

CLOSEST TO RT. 95. - BOTTOM OF SCREEN @ 13.5' BSS (BELOW SOIL SURFACE) ~ 2' SCREEN (13.5'-11.5'). TOP OF RISER IS ___ FT. ABOVE SOIL SURFACE.



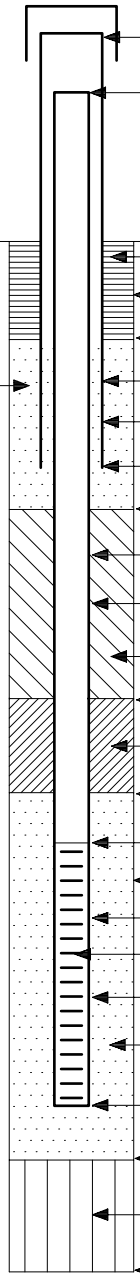
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: FCP-04
CLIENT: U. S EPA Region 1
BORING NO: FCP-04
CONTRACTOR: Tetra Tech NUS, Inc.
DRILLER: T. Dorgan
BORING LOCATION:
LOGGED BY: T. Dorgan
DATE: 2/5/03
CHECKED BY: D. Hartigan
DATE: 10/03/03

ELEVATION TOP OF PROTECTIVE CASING

ELEVATION TOP OF RISER PIPE

GROUND ELEVATION



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	N/A
LENGTH OF RISER PIPE ABOVE GROUND/SEDIMENT SURFACE (Ft.)	4.9
TYPE OF SURFACE SEAL	N/A
DIA. SURFACE SEAL BGS (In.)	N/A
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	N/A
I.D. OF PROTECTIVE CASING (In.)	N/A
TYPE OF PROTECTIVE CASING	None
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	N/A
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	N/A
RISER PIPE (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF RISER PIPE	Sched. 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	N/A
TYPE OF SEAL	N/A
DEPTH BOTTOM OF SEAL (Ft.)	N/A
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.0’
DIAMETER OF BOREHOLE (In.)	
TYPE OF PERVIOUS SECTION	Sched. 40 PVC
TYPE OF OPENINGS	Hand-saw cut 1/16” slotted
PERVIOUS SECTION (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	6.0’
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	6.0’

This was a hand-made PVC well that was manually driven into the creek bottom sediment. There were no drilling or well materials used other than the drive point itself.

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

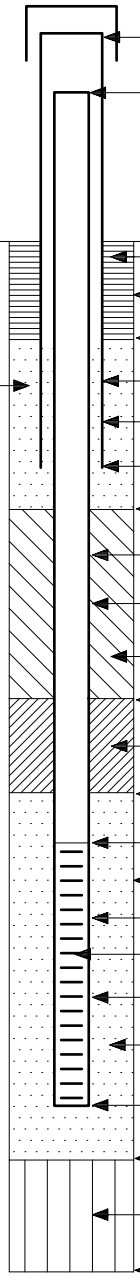
PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: FCP-05
CLIENT: U. S EPA Region 1
BORING NO: FCP-05
CONTRACTOR: Tetra Tech NUS, Inc.
DRILLER: T. Dorgan
BORING LOCATION:
LOGGED BY: T. Dorgan
DATE: 2/5/03
CHECKED BY: D. Hartigan
DATE: 10/03/03

ELEVATION TOP OF PROTECTIVE CASING

ELEVATION TOP OF RISER PIPE

GROUND ELEVATION

SAND DRAIN LAYER



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	N/A
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	4.35’
TYPE OF SURFACE SEAL	N/A
DIA. SURFACE SEAL BGS (In.)	N/A
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	N/A
I.D. OF PROTECTIVE CASING (In.)	N/A
TYPE OF PROTECTIVE CASING	None
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	N/A
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	N/A
RISER PIPE (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF RISER PIPE	Sched. 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	N/A
TYPE OF SEAL	N/A
DEPTH BOTTOM OF SEAL (Ft.)	N/A
DEPTH TOP OF PERVIOUS SECTION (Ft.)	4.3’
DIAMETER OF BOREHOLE (In.)	
TYPE OF PERVIOUS SECTION	Sched. 40 PVC
TYPE OF OPENINGS	Hand-saw cut 1/16” slotted
PERVIOUS SECTION (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	5.3’
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	5.3’

This was a hand-made PVC well that was manually driven into the creek bottom sediment. There were no drilling or well materials used other than the drive point itself.

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: FCP-06
CLIENT: U. S EPA Region 1
BORING NO: FCP-06
CONTRACTOR: Tetra Tech NUS, Inc.
DRILLER: T. Dorgan
BORING LOCATION:
LOGGED BY: T. Dorgan
DATE: 2/5/03
CHECKED BY: D. Hartigan
DATE: 10/03/03

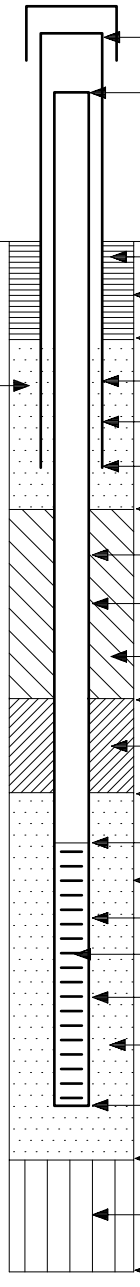
PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING

ELEVATION TOP OF RISER PIPE

GROUND ELEVATION

SAND DRAIN LAYER



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	N/A
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	
TYPE OF SURFACE SEAL	N/A
DIA. SURFACE SEAL BGS (In.)	N/A
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	N/A
I.D. OF PROTECTIVE CASING (In.)	N/A
TYPE OF PROTECTIVE CASING	None
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	N/A
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	N/A
RISER PIPE (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF RISER PIPE	Sched. 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	N/A
TYPE OF SEAL	N/A
DEPTH BOTTOM OF SEAL (Ft.)	N/A
DEPTH TOP OF PERVIOUS SECTION (Ft.)	4.85’
DIAMETER OF BOREHOLE (In.)	
TYPE OF PERVIOUS SECTION	Sched. 40 PVC
TYPE OF OPENINGS	Hand-saw cut 1/16” slotted
PERVIOUS SECTION (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	5.85’
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	5.85’

This was a hand-made PVC well that was manually driven into the creek bottom sediment. There were no drilling or well materials used other than the drive point itself.

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

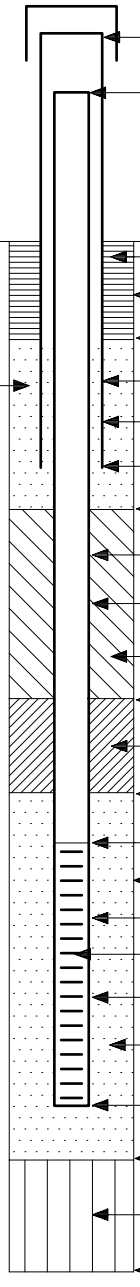
PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: FCP-07
CLIENT: U. S EPA Region 1
BORING NO: FCP-07
CONTRACTOR: Tetra Tech NUS, Inc.
DRILLER: T. Dorgan
BORING LOCATION:
LOGGED BY: T. Dorgan
DATE: 2/5/03
CHECKED BY: D. Hartigan
DATE: 10/03/03

ELEVATION TOP OF PROTECTIVE CASING

ELEVATION TOP OF RISER PIPE

GROUND ELEVATION

SAND DRAIN LAYER



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	N/A
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	
TYPE OF SURFACE SEAL	N/A
DIA. SURFACE SEAL BGS (In.)	N/A
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	N/A
I.D. OF PROTECTIVE CASING (In.)	N/A
TYPE OF PROTECTIVE CASING	None
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	N/A
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	N/A
RISER PIPE (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF RISER PIPE	Sched. 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	N/A
TYPE OF SEAL	N/A
DEPTH BOTTOM OF SEAL (Ft.)	N/A
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.8’
DIAMETER OF BOREHOLE (In.)	
TYPE OF PERVIOUS SECTION	Sched. 40 PVC
TYPE OF OPENINGS	Hand-saw cut 1/16” slotted
PERVIOUS SECTION (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	6.8’
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	6.8’

This was a hand-made PVC well that was manually driven into the creek bottom sediment. There were no drilling or well materials used other than the drive point itself.

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: FCP-08
CLIENT: U. S EPA Region 1
BORING NO: FCP-08
CONTRACTOR: Tetra Tech NUS, Inc.
DRILLER: T. Dorgan
BORING LOCATION:
LOGGED BY: T. Dorgan
DATE: 2/5/03
CHECKED BY: D. Hartigan
DATE: 10/03/03

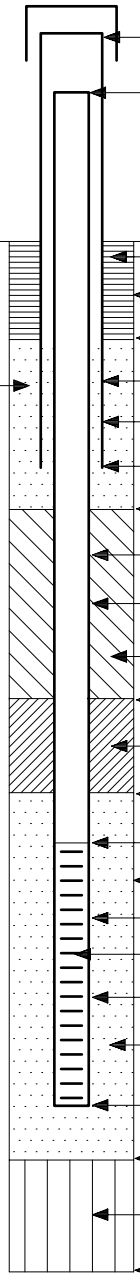
PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING

ELEVATION TOP OF RISER PIPE

GROUND ELEVATION

SAND DRAIN LAYER



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	N/A
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	3.5’
TYPE OF SURFACE SEAL	N/A
DIA. SURFACE SEAL BGS (In.)	N/A
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	N/A
I.D. OF PROTECTIVE CASING (In.)	N/A
TYPE OF PROTECTIVE CASING	None
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	N/A
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	N/A
RISER PIPE (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF RISER PIPE	Sched. 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	N/A
TYPE OF SEAL	N/A
DEPTH BOTTOM OF SEAL (Ft.)	N/A
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.25’
DIAMETER OF BOREHOLE (In.)	
TYPE OF PERVIOUS SECTION	Sched. 40 PVC
TYPE OF OPENINGS	Hand-saw cut 1/16” slotted
PERVIOUS SECTION (In.) I.D.: 1”	O.D.: 1.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	6.25’
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	6.25’

This was a hand-made PVC well that was manually driven into the creek bottom sediment. There were no drilling or well materials used other than the drive point itself.

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

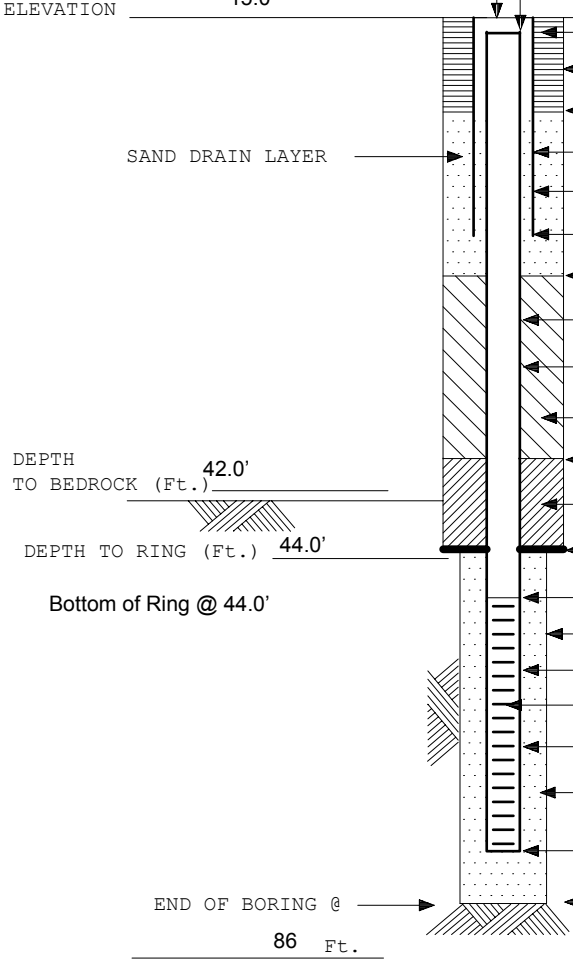
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-201B
CLIENT: US EPA – Region 1
BORING NO: SB-201B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: ~5' east of MW-201D, on DOT Traffic Island beside Rt.95
LOGGED BY: Tracy Dorgan
DATE: 12/03/98
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 15.12'

ELEVATION TOP OF RISER PIPE 14.62'

GROUND ELEVATION 15.0



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.57'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	40.8'
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	43.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	45.5'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	85.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT OVERBURDEN MONITORING WELL CONSTRUCTION LOG — TETRA TECH NUS, INC.

PROJECT NAME:	Raymark Offsite Drilling	PROJECT NO:	4847
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-201D
CLIENT:	U.S EPA, Region I	BORING NO:	SB-201D
CONTRACTOR:	Geologic	DRILLER:	John Galvin
LOGGED BY:	Tracy Dorgan	DATE:	3-20-96
CHECKED BY:		DATE:	

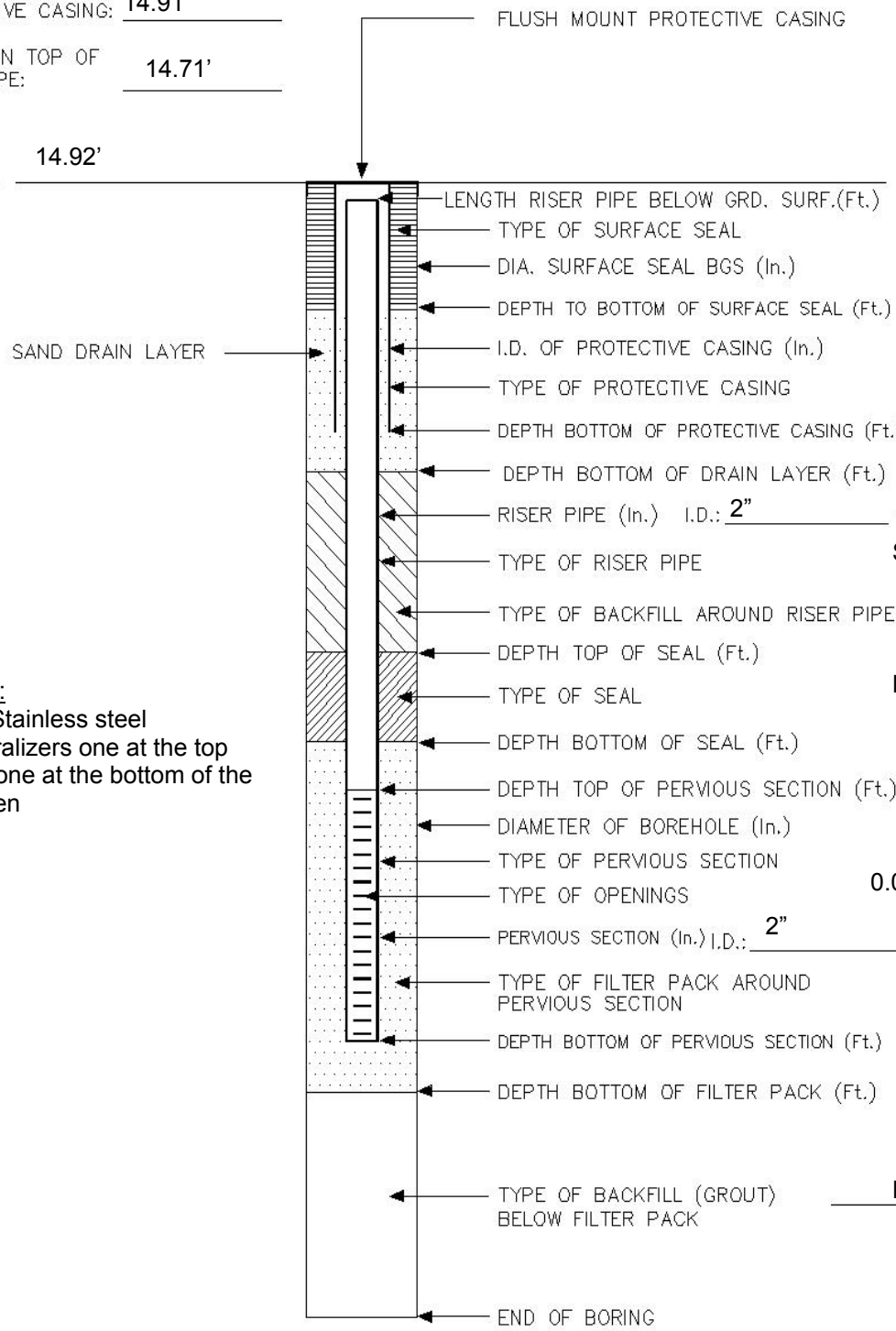
BORING LOCATION: Across from Dock Mall North-end DOT

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 14.91'

ELEVATION TOP OF RISER PIPE: 14.71'

GROUND ELEVATION 14.92'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.21'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.3'
I.D. OF PROTECTIVE CASING (In.)	~4"
TYPE OF PROTECTIVE CASING	Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5'
RISER PIPE (In.) I.D.: 2" O.D.: 2 3/8"	
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Volclay Gout/Sand
DEPTH TOP OF SEAL (Ft.)	28.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	30.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	32.7'
DIAMETER OF BOREHOLE (In.)	~6"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2" O.D.: 2 3/8"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	37.7'
DEPTH BOTTOM OF FILTER PACK (Ft.)	38.2'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	38.2'

Note:
- 2 Stainless steel centralizers one at the top and one at the bottom of the screen

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS form 0061

FLUSH MOUNT OVERBURDEN MONITORING WELL CONSTRUCTION LOG — TETRA TECH NUS, INC.

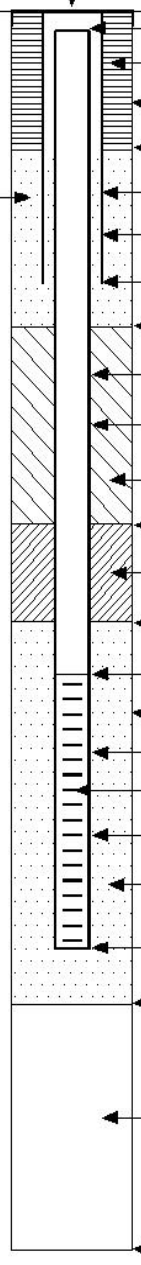
PROJECT NAME:	Raymark Offsite Drilling	PROJECT NO:	4847
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-202D
CLIENT:	U.S EPA, Region I	BORING NO:	SB-202D
CONTRACTOR:	Geologic	DRILLER:	John Galvin
LOGGED BY:	D. MacDougall	DATE:	3-20-96
CHECKED BY:		DATE:	
BORING LOCATION:	South DOT island along Ferry Blvd.		

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 11.68'

ELEVATION TOP OF RISER PIPE: 11.35'

GROUND ELEVATION 11.66'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.31'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4'
I.D. OF PROTECTIVE CASING (In.)	~4"
TYPE OF PROTECTIVE CASING	Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	6'
RISER PIPE (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Volclay Gout/Sand
DEPTH TOP OF SEAL (Ft.)	25'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	27'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	29'
DIAMETER OF BOREHOLE (In.)	~6"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	34'
DEPTH BOTTOM OF FILTER PACK (Ft.)	35'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	35'

Note:
- 2 Stainless steel centralizers one at the top and one at the bottom of the screen

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS form 0061

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-202S
CLIENT:	U.S EPA Region I	BORING NO:	SB-202S
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/17/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03. 9/22/03

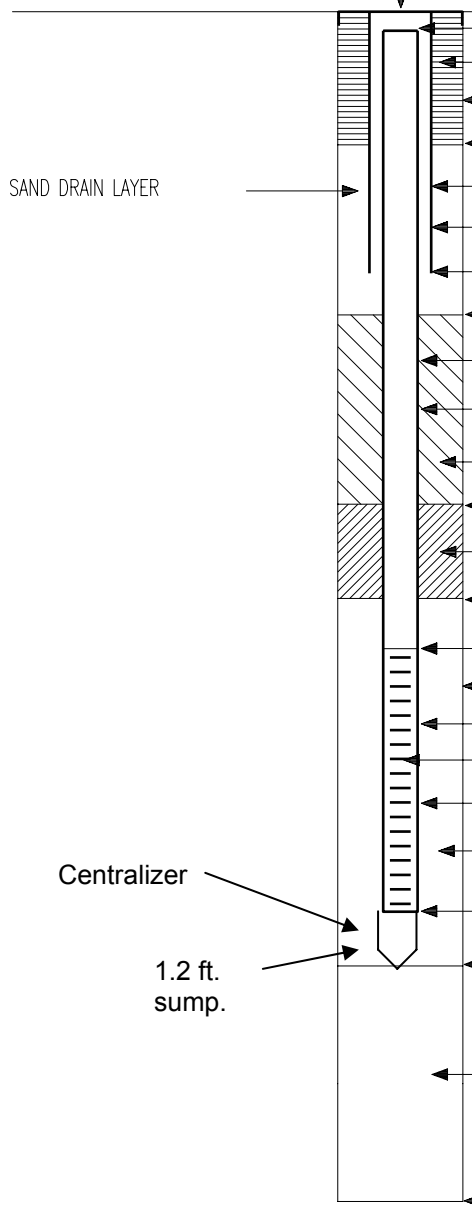
BORING LOCATION: Directly across from Sunoco on Ferry Blvd.

PAGE: 1 OF 1

Elevation Top of Protective Casing 11.91'

Elevation Top of Riser Pipe 11.62'

GROUND ELEVATION 11.7'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.4'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18".
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5 ft.
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5 ft.
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.5'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.1
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	15.1'
DEPTH BOTTOM OF FILTER PACK (Ft.)	16.3'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Med. sand
END OF BORING	17.5

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-202SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-202SG
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	C. Rosseau	DATE:	10/15/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

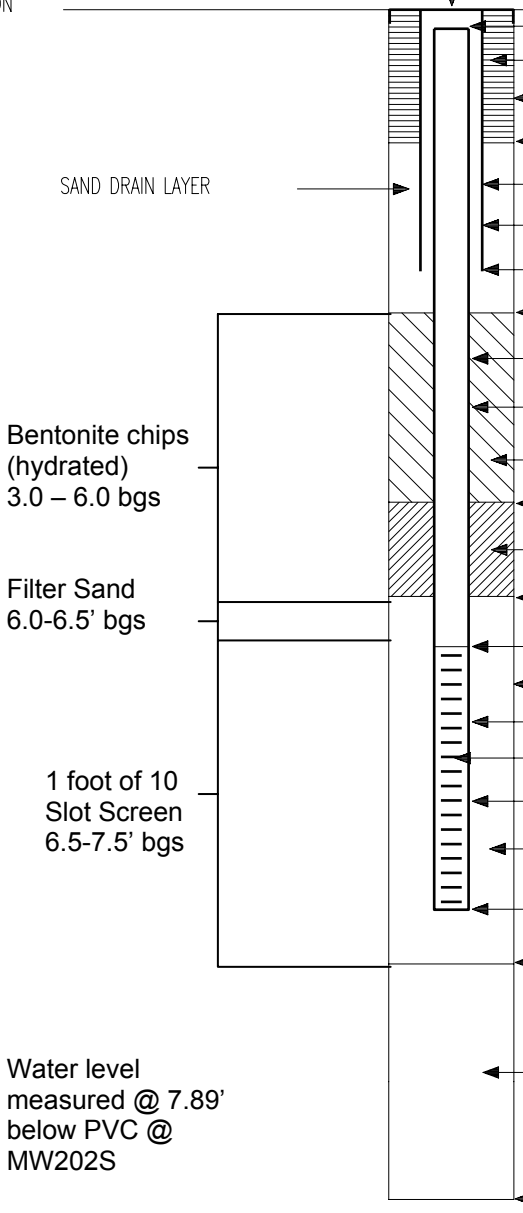
BORING LOCATION: Directly across from Sunoco Gas Station on Ferry Blvd.

PAGE: 1 OF 1

Elevation Top of Protective Casing 12.05 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 11.9 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	16"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.7'
I.D. OF PROTECTIVE CASING (In.)	5.0'
TYPE OF PROTECTIVE CASING	Steel raod box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 1.0" O.D.:	1.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	6.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.5'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 1.5" O.D.:	1.875"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	7.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	7.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Filter Sand
END OF BORING	8.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT OVERBURDEN MONITORING WELL CONSTRUCTION LOG — TETRA TECH NUS, INC.

PROJECT NAME:	Raymark Offsite Drilling	PROJECT NO:	4847
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-203D
CLIENT:	U.S EPA, Region I	BORING NO:	SB-203D
CONTRACTOR:	Geologic	DRILLER:	John Galvin
LOGGED BY:	T. Dorgan	DATE:	3-21-96
CHECKED BY:		DATE:	

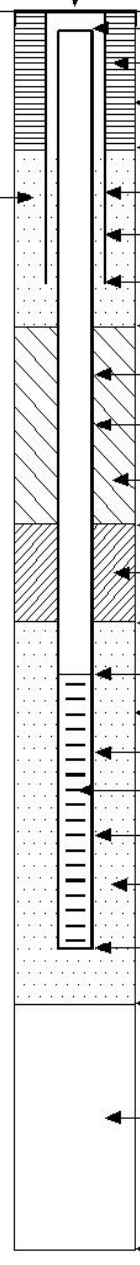
BORING LOCATION: East DOT lawn along Ferry Blvd.

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 13.26'

ELEVATION TOP OF RISER PIPE: 12.96'

GROUND ELEVATION 13.24'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.26'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.55'
I.D. OF PROTECTIVE CASING (In.)	~4"
TYPE OF PROTECTIVE CASING	Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Volclay Gout/Sand
DEPTH TOP OF SEAL (Ft.)	20'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	22'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	24'
DIAMETER OF BOREHOLE (In.)	~6"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	29'
DEPTH BOTTOM OF FILTER PACK (Ft.)	30'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	30'

Note:
- 2 Stainless steel centralizers one at the top and one at the bottom of the screen

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS form 0061

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

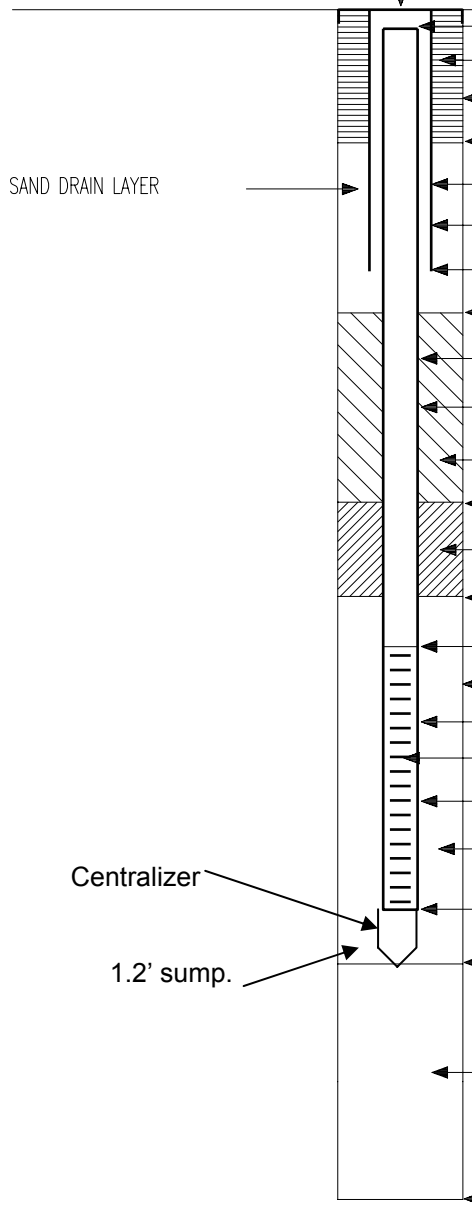
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-203S
CLIENT:	U.S EPA Region I	BORING NO:	SB-203S
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/17/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
BORING LOCATION:	Directly across from 800 Ferry Blvd.		

PAGE: 1 OF 1

Elevation Top of Protective Casing 13.27 feet

Elevation Top of Riser Pipe 12.92 feet

GROUND ELEVATION 13.3 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.4'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	5.1'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.1
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	17.1'
DEPTH BOTTOM OF FILTER PACK (Ft.)	18.3'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Med. sand
END OF BORING	18.6'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

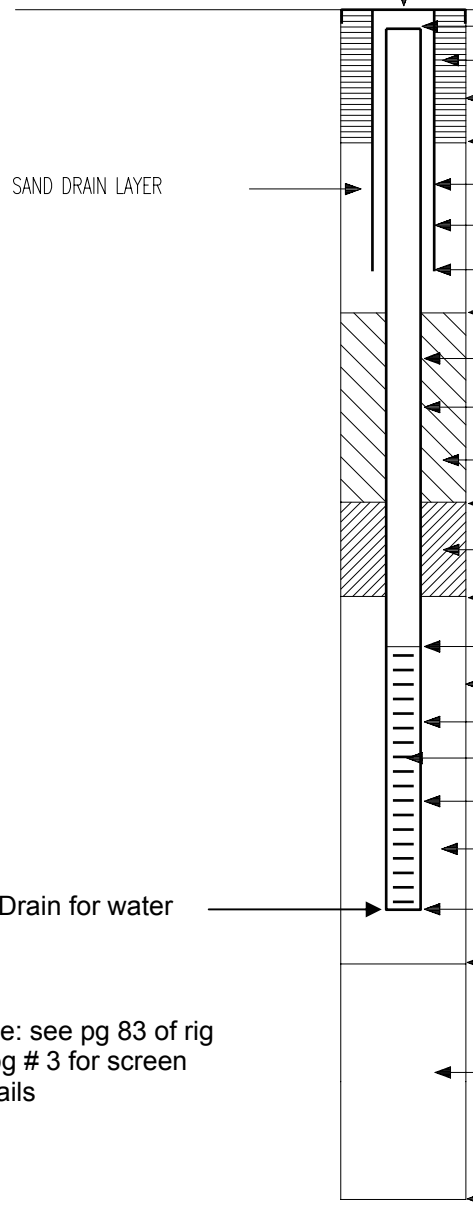
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-203SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-203SG
CONTRACTOR:	ADT	DRILLER:	Marques Larabie
LOGGED BY:	J. Lambert	DATE:	10/3/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03
BORING LOCATION:	Across from 800 Ferry Blvd.		

PAGE: 1 OF 1

Elevation Top of Protective Casing 13.2 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 13.1 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.0’
RISER PIPE (In.) I.D.: ¾” O.D.:	1 1/8”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	4.0’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	6.0’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.7’
DIAMETER OF BOREHOLE (In.)	0-5 = 5” 5-7.8 = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.:	2” O.D.: 2.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	7.8’
DEPTH BOTTOM OF FILTER PACK (Ft.)	7.8’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	7.8’

Note: see pg 83 of rig 2 log # 3 for screen details

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT OVERBURDEN MONITORING WELL CONSTRUCTION LOG — TETRA TECH NUS, INC.

PROJECT NAME:	Raymark Offsite Drilling	PROJECT NO:	4847
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-204D
CLIENT:	U.S EPA, Region I	BORING NO:	SB-204D
CONTRACTOR:	Geologic	DRILLER:	John Galvin
LOGGED BY:	D. MacDougall	DATE:	3-25-96
CHECKED BY:		DATE:	

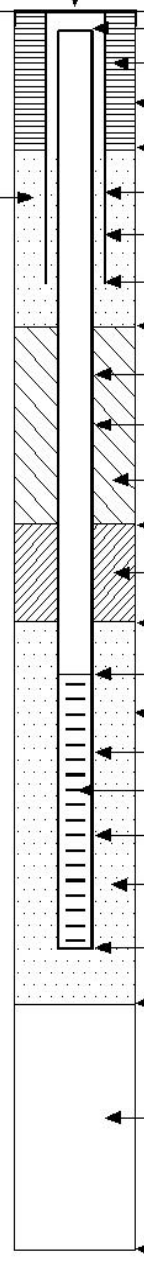
BORING LOCATION: Southeast of weigh station (grass)

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 11.52

ELEVATION TOP OF RISER PIPE: 11.27'

GROUND ELEVATION: 11.5'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.23'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	5'
I.D. OF PROTECTIVE CASING (In.)	~4"
TYPE OF PROTECTIVE CASING	Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	7'
RISER PIPE (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Volclay Gout/Sand
DEPTH TOP OF SEAL (Ft.)	41'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	43'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	45'
DIAMETER OF BOREHOLE (In.)	~6"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	50'
DEPTH BOTTOM OF FILTER PACK (Ft.)	51'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Bentonite Chips/Sand
END OF BORING	55'

Note:
- 2 Stainless steel centralizers one at the top and one at the bottom of the screen

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS form 0061

FLUSH MOUNT OVERBURDEN MONITORING WELL CONSTRUCTION LOG — TETRA TECH NUS, INC.

PROJECT NAME:	Raymark Offsite Drilling	PROJECT NO:	4847
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-205D
CLIENT:	U.S EPA, Region I	BORING NO:	SB-205D
CONTRACTOR:	Geologic	DRILLER:	John Galvin
LOGGED BY:	T. Dorgan	DATE:	3-27-96
CHECKED BY:		DATE:	

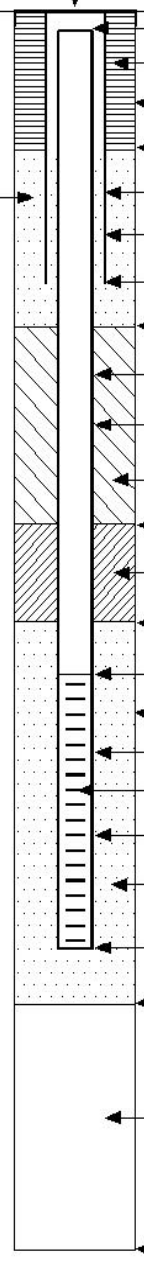
BORING LOCATION: Island Barnum Ave, west of Rte. 95, East of Ferry Blvd.

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 18.24'

ELEVATION TOP OF RISER PIPE: 17.99'

GROUND ELEVATION 18.24'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.25'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4'
I.D. OF PROTECTIVE CASING (In.)	~4"
TYPE OF PROTECTIVE CASING	Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Volclay Gout/Sand
DEPTH TOP OF SEAL (Ft.)	53'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	55.45'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	57.6'
DIAMETER OF BOREHOLE (In.)	~6"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	62.6'
DEPTH BOTTOM OF FILTER PACK (Ft.)	63.55'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	63.55'

Note:
- 2 Stainless steel centralizers one at the top and one at the bottom of the screen

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS form 0061

FLUSH MOUNT OVERBURDEN MONITORING WELL CONSTRUCTION LOG — TETRA TECH NUS, INC.

PROJECT NAME:	Raymark OU2 - Offsite Drilling	PROJECT NO:	4847
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-206D
CLIENT:	U.S EPA, Region I	BORING NO:	SB-206D
CONTRACTOR:	Geologic	DRILLER:	John Galvin
LOGGED BY:	T. Dorgan	DATE:	4-1-96
CHECKED BY:		DATE:	

BORING LOCATION: North end of weigh station

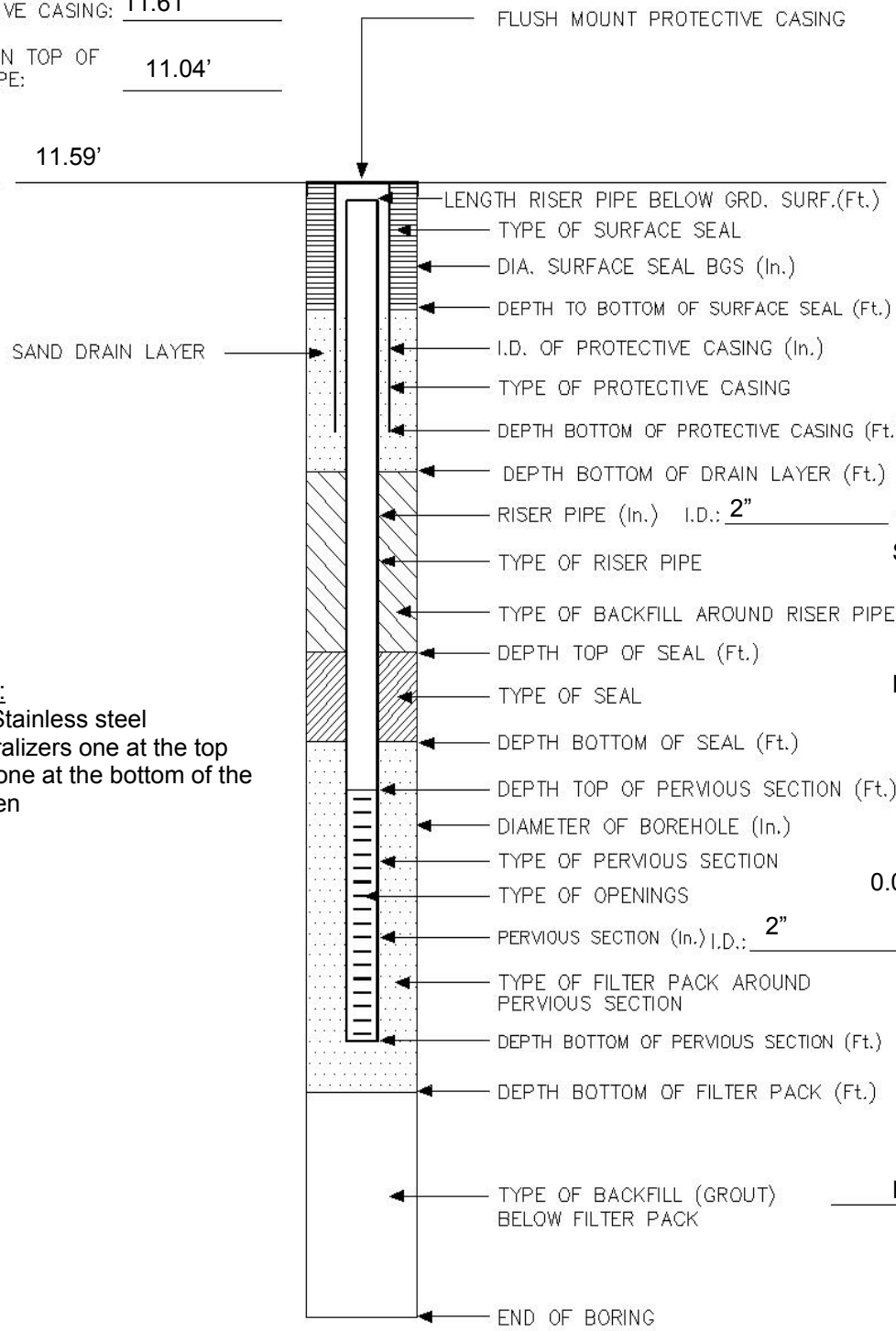
Between rte. 95 and raymark

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 11.61'

ELEVATION TOP OF RISER PIPE: 11.04'

GROUND ELEVATION 11.59'



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.55'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.5'
I.D. OF PROTECTIVE CASING (In.)	~4"
TYPE OF PROTECTIVE CASING	Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Volclay Gout/Sand
DEPTH TOP OF SEAL (Ft.)	56.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	58.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	60.55'
DIAMETER OF BOREHOLE (In.)	~6"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2 3/8"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	65.55'
DEPTH BOTTOM OF FILTER PACK (Ft.)	66.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	66.5'

Note:
- 2 Stainless steel centralizers one at the top and one at the bottom of the screen

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

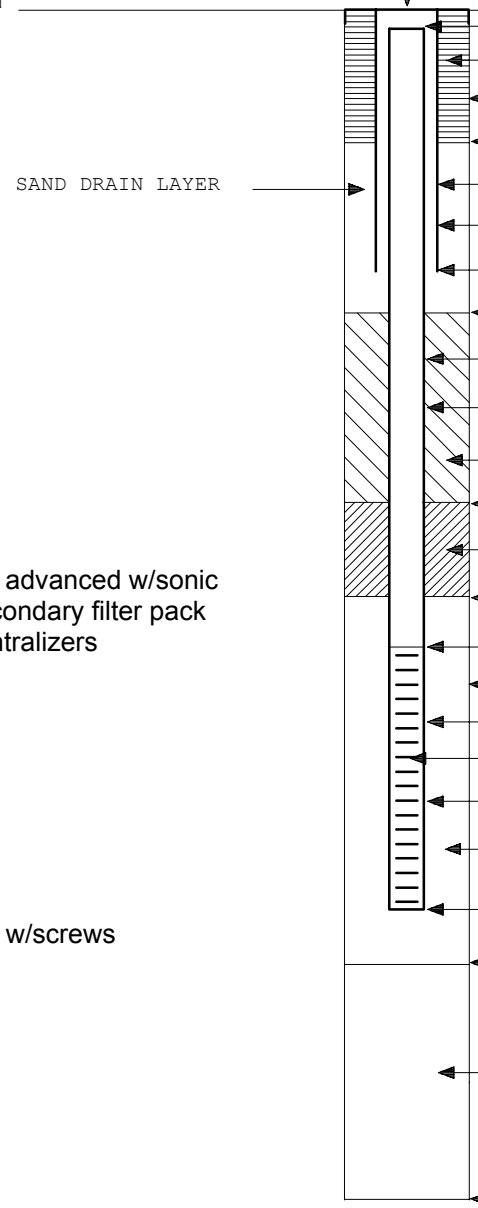
TtNUS form 0061

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	206M
CLIENT:	US EPA, RAC I	BORING NO:	206 M.S
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-22-97
CHECKED BY:		DATE:	

BORING LOCATION: DOT land: N of Rte 95 - former weigh station

PAGE: 1 OF 1



FLUSH MOUNT PROTECTIVE CASING

GROUND ELEVATION 12.21'

SAND DRAIN LAYER

LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.30'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18-24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8'
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	MW-206S
DEPTH TOP OF SEAL (Ft.)	22'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	25'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	27'
DIAMETER OF BOREHOLE (In.)	6"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.01" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	#00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	34'
DEPTH BOTTOM OF FILTER PACK (Ft.)	35'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips
END OF BORING	38'

Note:
- boring advanced w/sonic
- no secondary filter pack
- no centralizers

slip cap w/screws

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-206MR
CLIENT:	U.S EPA Region I	BORING NO:	SB-206MR
CONTRACTOR:	ADT	DRILLER:	M. Larabie
LOGGED BY:	B. Qunion	DATE:	1/9/03
CHECKED BY:	D. Hartigan	DATE:	9/17/03

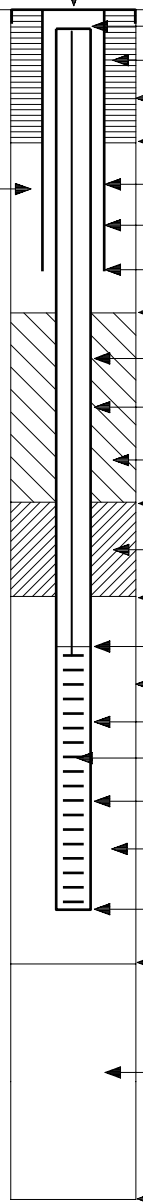
BORING LOCATION: Dot land N. of Rt. 95, former Weigh station

PAGE: 1 OF 1

Elevation Top of Protective Casing 12.08 Ft.

Elevation Top of Riser Pipe 11.54 Ft.

GROUND ELEVATION 11.9 Ft.



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18”-20”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0’
I.D. OF PROTECTIVE CASING (In.)	8”
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5’
RISER PIPE (In.) I.D.: 2.0” O.D.: 2.375”	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Drill cuttings
DEPTH TOP OF SEAL (Ft.)	4.0’
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	23’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	24’
DIAMETER OF BOREHOLE (In.)	4”
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 2.0” O.D.: 2.375”	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 1 sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	34’
DEPTH BOTTOM OF FILTER PACK (Ft.)	35’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	none
END OF BORING	35’

GENERAL NOTE:

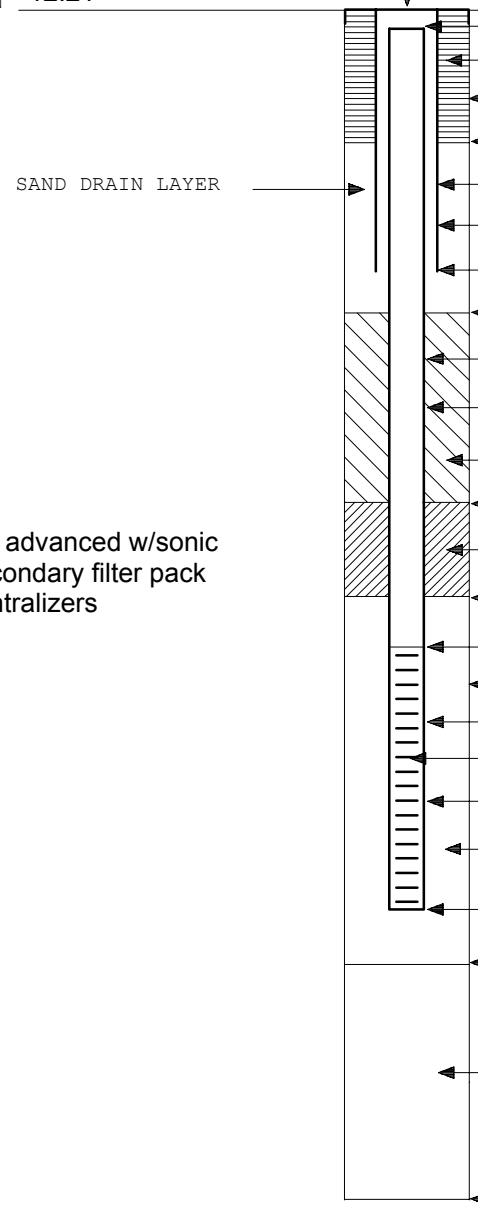
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	206S
CLIENT:	US EPA, RAC I	BORING NO:	206 M.S
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10/22/97
CHECKED BY:		DATE:	
BORING LOCATION:	DOT land: N. of Rte 95 - former weigh station		

PAGE: 1 OF 1



FLUSH MOUNT PROTECTIVE CASING

GROUND ELEVATION 12.21'

SAND DRAIN LAYER

LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.31'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18-24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	none
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6'
DIAMETER OF BOREHOLE (In.)	8"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.01" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	#00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	21'
DEPTH BOTTOM OF FILTER PACK (Ft.)	22'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips/MW-206M
END OF BORING	38'

Note:
- boring advanced w/sonic
- no secondary filter pack
- no centralizers

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-206SR
CLIENT:	U.S EPA Region I	BORING NO:	SB-206SR
CONTRACTOR:	ADT	DRILLER:	Roger Buley
LOGGED BY:	Garrett Quinn	DATE:	12/19/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

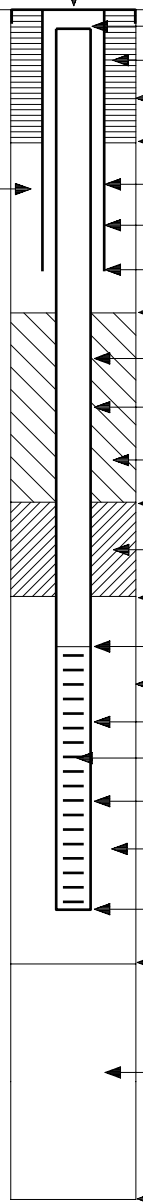
BORING LOCATION: DOT land. N. of Rte. 95 former weigh station.

PAGE: 1 OF 1

Elevation Top of Protective Casing 12.11 feet

Elevation Top of Riser Pipe 11.91 feet

GROUND ELEVATION 12 feet



FLUSH MOUNT PROTECTIVE CASING	
LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.15’
TYPE OF SURFACE SEAL	Quickcrete concrete
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0’
SAND DRAIN LAYER	
I.D. OF PROTECTIVE CASING (In.)	10.0”
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5’
RISER PIPE (In.) I.D.: 2.0” O.D.: 2.375”	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	#1 sand
DEPTH TOP OF SEAL (Ft.)	2.5’
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.0’
DIAMETER OF BOREHOLE (In.)	4.0’
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 2.0” O.D.: 2.375”	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	#1 sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	21’
DEPTH BOTTOM OF FILTER PACK (Ft.)	22’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Hole collapsed natural
END OF BORING	23.5’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

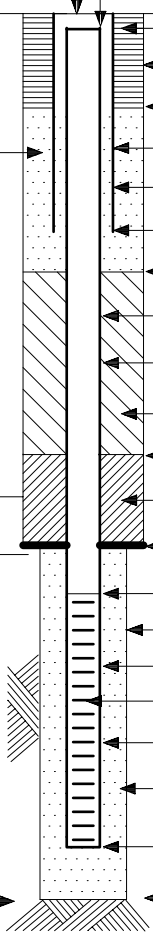
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2		PROJECT NO: N4236-0320	
PROJECT LOCATION: Stratford, CT		WELL NO: MW-207B	
CLIENT: U.S EPA Region I		BORING NO: SB-207B	
CONTRACTOR: ADT.	DRILLER: Les Darrow	BORING LOCATION: Traffic Island on RTE 1 in front Home Depot	
LOGGED BY: J. Lambert	DATE: 12/19/02		
CHECKED BY: J. Danieli, D. Hartigan	DATE: 8/18/03, 9/22/03	PAGE: 1 OF 1	

Elevation Top of Protective Casing 20.79 feet

Elevation Top of Riser Pipe 20.27 feet

GROUND ELEVATION 20.7 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	20"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3"
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite grout
DEPTH TOP OF SEAL (Ft.)	83.3'
TYPE OF SEAL	Hydrated Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	86'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	86'
DIAMETER OF BOREHOLE (In.)	0-86'=4", 86-99'=3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	96'
Sump approx. 1.2 ft.	
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

TtNUS form 0060

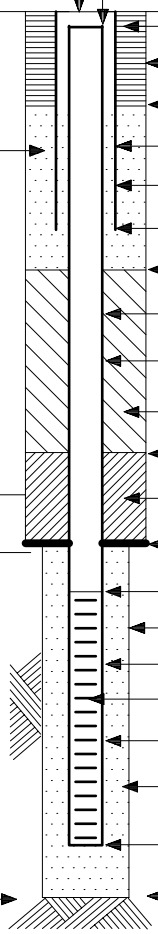
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark Offsite Drilling
PROJECT NO: 4847
PROJECT LOCATION: Stratford, CT
WELL NO:
CLIENT: US EPA, Region I, RAC
BORING NO: MW-207D
CONTRACTOR: GeoLogic
DRILLER: John Galvin
BORING LOCATION: Traffic Island West Corner
LOGGED BY: Tracy Dorgan
DATE: 4-4-96
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 20.32'

ELEVATION TOP OF RISER PIPE 20.09'

GROUND ELEVATION 20.27'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.18'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	4.3'
I.D. OF PROTECTIVE CASING (In.)	~4"
TYPE OF PROTECTIVE CASING	Flush-Mount Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5'
RISER PIPE (In.) I.D.: 2" O.D.: 2 3/8"	
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Volclay Grout/Sand
DEPTH TOP OF SEAL (Ft.)	91.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	93.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	~6'
DIAMETER OF BOREHOLE (In.)	95.5"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2" O.D.: 2 3/8"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	100.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	101.5'

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

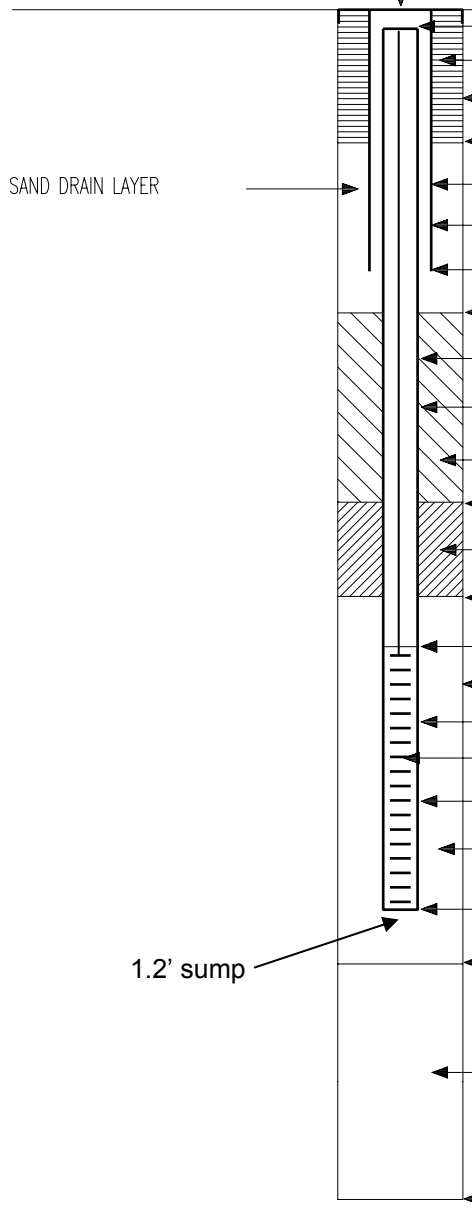
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-207DR
CLIENT:	U.S EPA Region I	BORING NO:	SB-207DR
CONTRACTOR:	ADT	BORING LOCATION:	Traffic triangle on rte 1 across
DRILLER:	Les Darrow		From home depot
LOGGED BY:	J. Lambert	DATE:	1/9/03
CHECKED BY:	D. Hartigan	DATE:	9/17/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 20.83 Ft.

Elevation Top of Riser Pipe 20.34 Ft.

GROUND ELEVATION 20.7 Ft.



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.4'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite slurry
DEPTH TOP OF SEAL (Ft.)	18'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	71'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	73.3'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Medium Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	83.3'
DEPTH BOTTOM OF FILTER PACK (Ft.)	84.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Hydrated Bentonite chips
END OF BORING	85'

GENERAL NOTE:

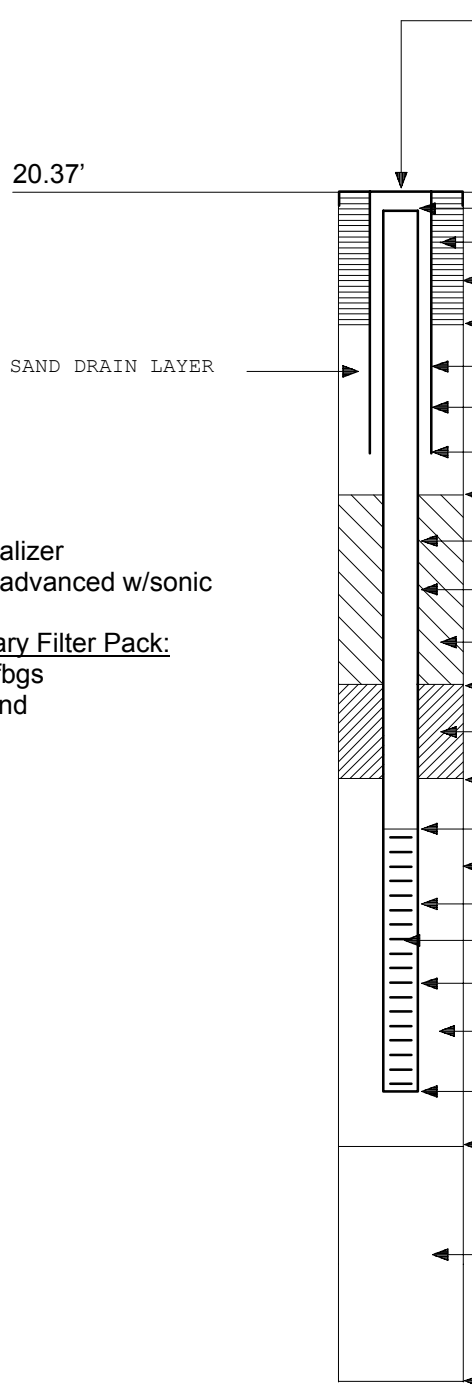
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	207M
CLIENT:	US EPA, RAC I	BORING NO:	207 (M.S)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-11-97
CHECKED BY:		DATE:	
BORING LOCATION:	On traffic island South and adjacent to Raymark site		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.26 fb-RB (top)
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18-24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.05" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	see MW-207S
DEPTH TOP OF SEAL (Ft.)	31'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	39'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	42'
DIAMETER OF BOREHOLE (In.)	6"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.01" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	52'
DEPTH BOTTOM OF FILTER PACK (Ft.)	53'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips
END OF BORING	95'

Note:
- 1 centralizer
- boring advanced w/sonic

Secondary Filter Pack:
- 39-40 fbgs
- 00n sand

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-207MR
CLIENT:	U.S EPA Region I	BORING NO:	SB-207MR
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	1/9/03
CHECKED BY:	D. Hartigan	DATE:	9/17/03

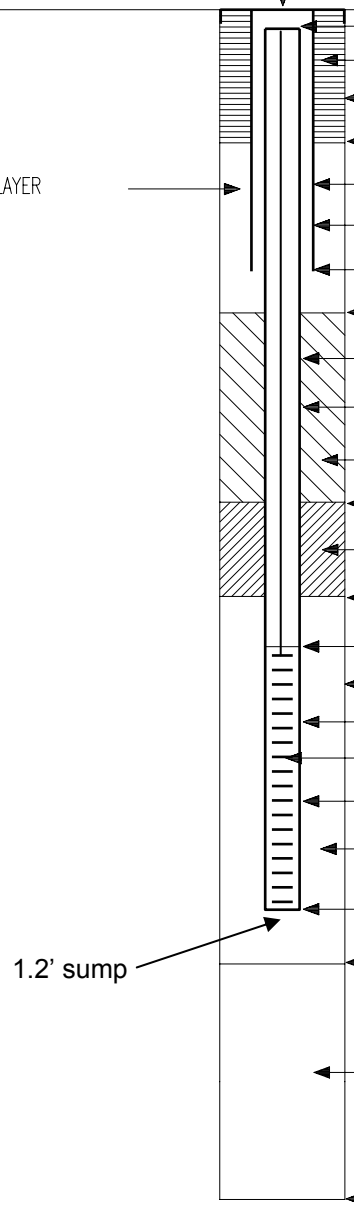
BORING LOCATION: Traffic triangle on rte 1 in front Of home depot

PAGE: 1 OF 1

Elevation Top of Protective Casing 20.78 Ft.

Elevation Top of Riser Pipe 20.26 Ft.

GROUND ELEVATION 20.7 Ft.



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.4'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite slurry
DEPTH TOP OF SEAL (Ft.)	35'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	40'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	41.8''
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Medium Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	51.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	53'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	53'

GENERAL NOTE:

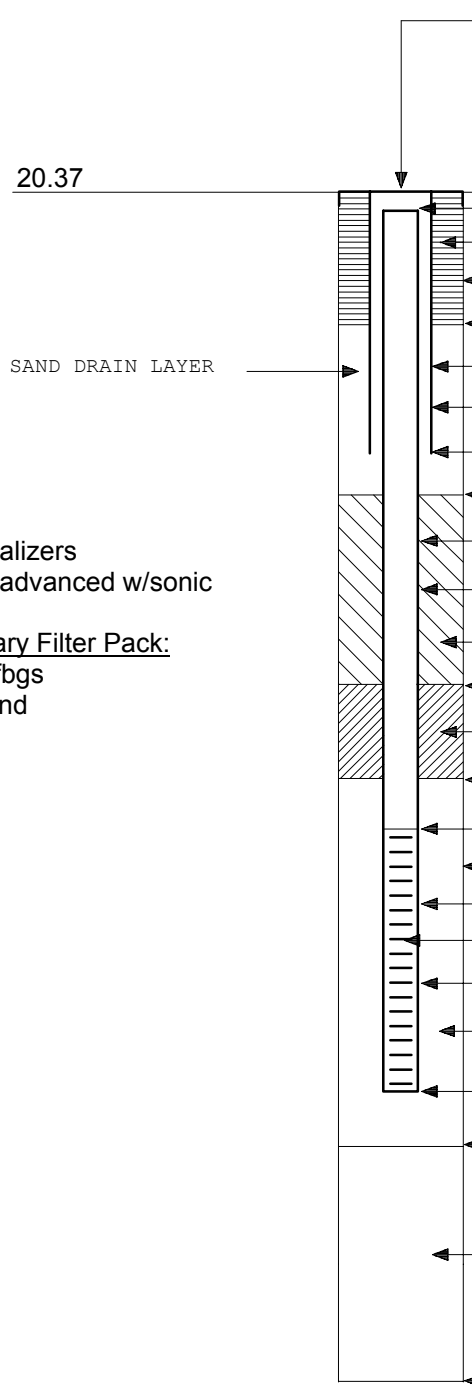
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	207 S
CLIENT:	US EPA, RAC I	BORING NO:	207 (M+S)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-11-97
CHECKED BY:		DATE:	
BORING LOCATION:	On traffic island South and adjacent to Raymark site		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.29 fb-RB (top)
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18-24”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4’
I.D. OF PROTECTIVE CASING (In.)	8”
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2’
RISER PIPE (In.) I.D.: 2.03” O.D.:	2.3”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	none
DEPTH TOP OF SEAL (Ft.)	2’
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	12’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	15’
DIAMETER OF BOREHOLE (In.)	8”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.006” factory
PERVIOUS SECTION I.D.: 2.05” O.D.:	2.3”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	00N sand
DEPTH BOTTOM OF PERVIOUS SECTION	30’
DEPTH BOTTOM OF FILTER PACK (Ft.)	31’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	MW-207M/bentonite chips
END OF BORING	95’

Note:
- 0 centralizers
- boring advanced w/sonic

Secondary Filter Pack:
- 12-13 fbgs
- 000 sand

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

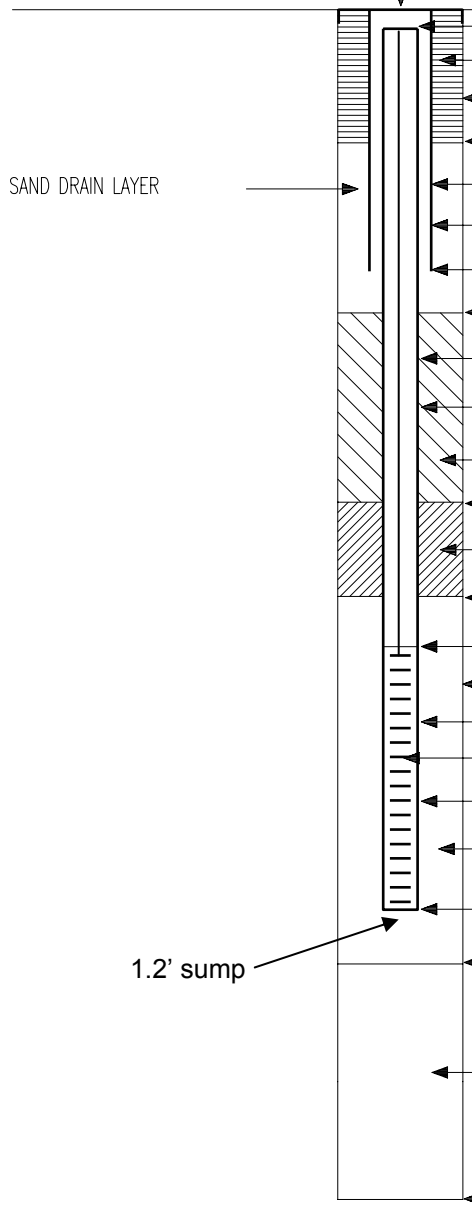
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-207SR
CLIENT:	U.S EPA Region I	BORING NO:	SB-207SR
CONTRACTOR:	ADT	BORING LOCATION:	Traffic triangle on route 1 in front of home depot
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	1/9/03
CHECKED BY:	D. Hartigan	DATE:	9/17/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 20.7 Ft.

Elevation Top of Riser Pipe 19.96 Ft.

GROUND ELEVATION 20.6 Ft.



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.6'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite grout
DEPTH TOP OF SEAL (Ft.)	7.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	10'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	11.8''
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Medium Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	26.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	28'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	28'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

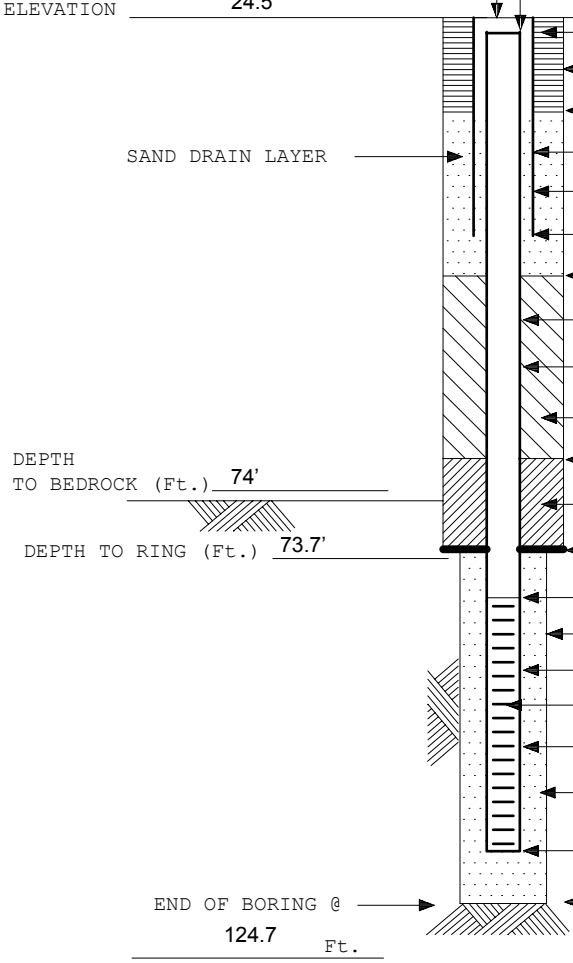
PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-208B
CLIENT: US EPA – Region 1
BORING NO: SB-208B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: S.Bray
BORING LOCATION: DOT Access Rd. @ 208 cluster
LOGGED BY: D.Whalen
DATE: 02/01/99
CHECKED BY:
DATE:

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 24.45'

ELEVATION TOP OF RISER PIPE 23.85'

GROUND ELEVATION 24.5'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.15'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.9'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.1'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	70.7'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	73.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	73.7'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.02" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	123.7'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

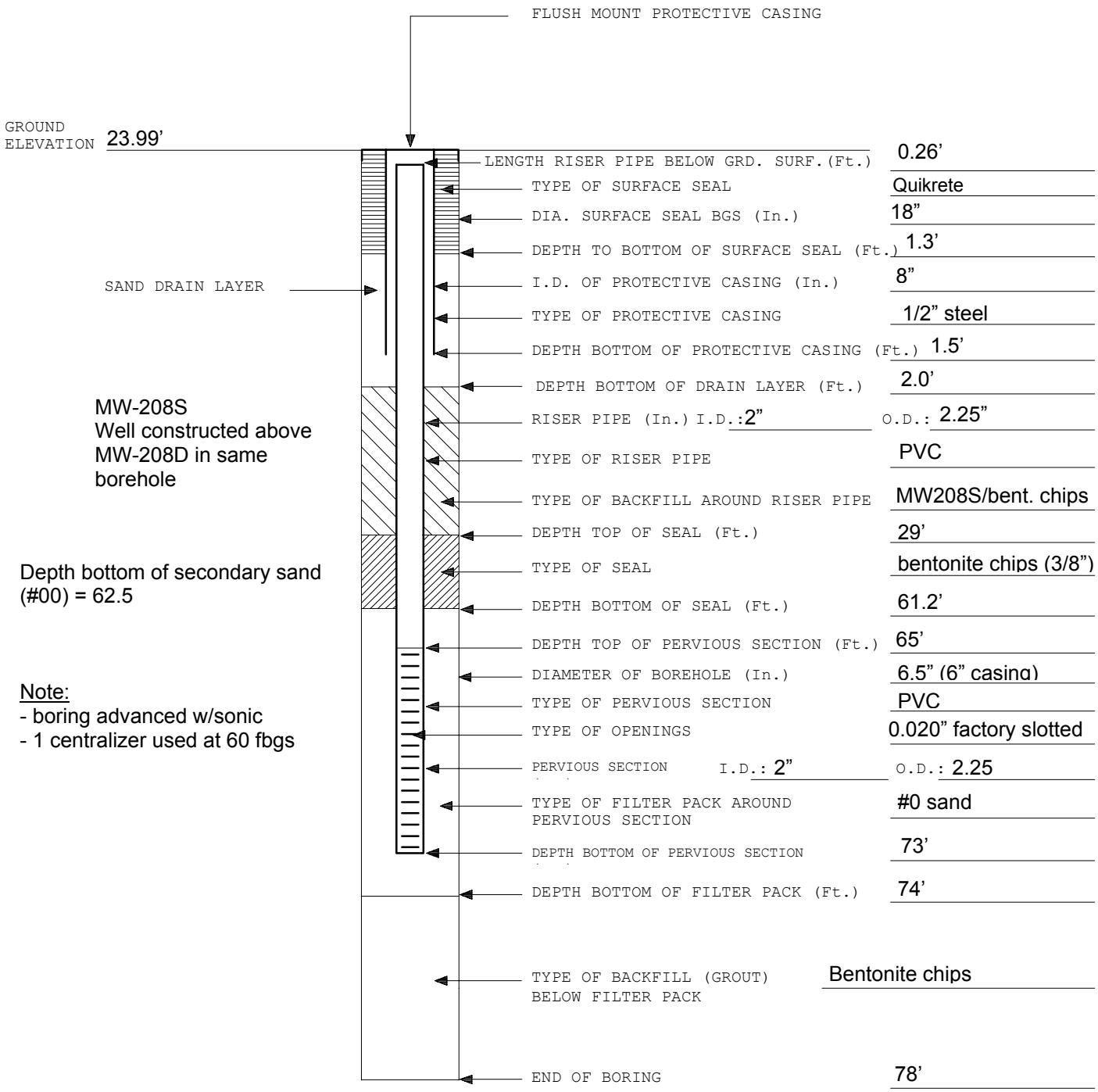
GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Raymark OU2, Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW 208D
CLIENT:	US EPA, RAC I	BORING NO:	208 (D.S)
CONTRACTOR:	Alliance	DRILLER:	Ben Grim
LOGGED BY:	Joe Mello	DATE:	9-29-97
CHECKED BY:		DATE:	
BORING LOCATION:	S. of RR tracks and W. of Raymark site		

PAGE: 1 OF 1

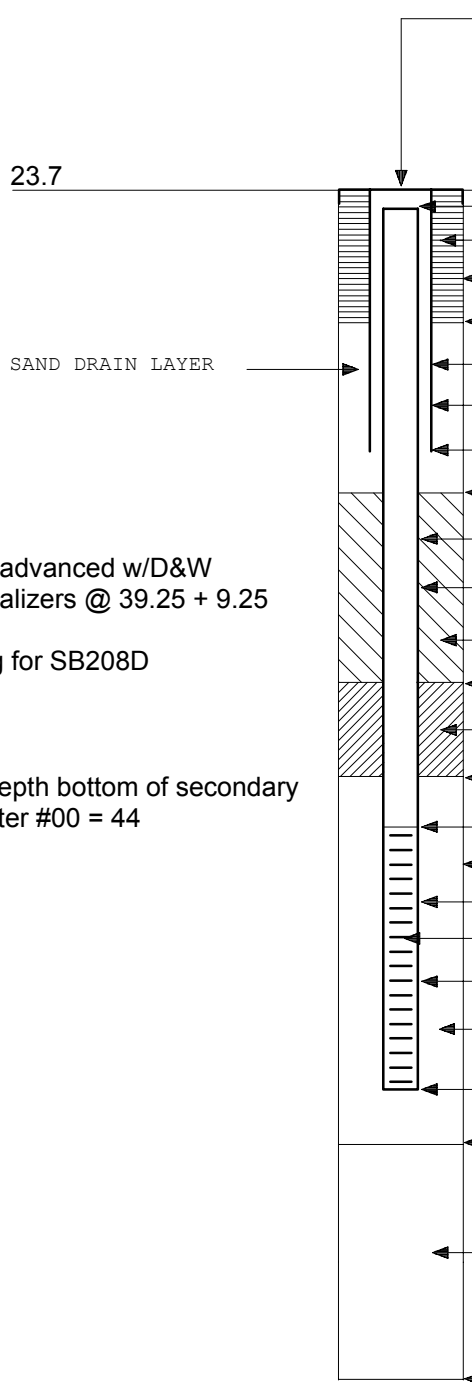


G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground
NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Raymark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW 208M
CLIENT:	US EPA, RAC I	BORING NO:	208M
CONTRACTOR:	Alliance	DRILLER:	Ben Grim
LOGGED BY:	Joe Mello	DATE:	9-30-97
CHECKED BY:		DATE:	
BORING LOCATION:	S. of RR tracks and W. of Raymark site		
PAGE:	1 OF 1		



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.25'
TYPE OF SURFACE SEAL	Quikrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	1/2" steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.25"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	bentonite cement
DEPTH TOP OF SEAL (Ft.)	38'
TYPE OF SEAL	(3/8") bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	43'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	46.25'
DIAMETER OF BOREHOLE (In.)	6.5" (6.0" casing)
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 0 sand
DEPTH BOTTOM OF PERVIOUS SECTION	55.25'
DEPTH BOTTOM OF FILTER PACK (Ft.)	56'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	none
END OF BORING	56'

Note:
- boring advanced w/D&W
- 2 centralizers @ 39.25 + 9.25 fbgs
- see log for SB208D

Depth bottom of secondary filter #00 = 44

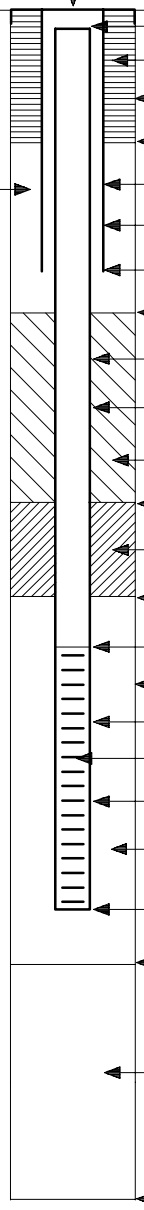
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Raymark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	208S
CLIENT:	US EPA, RAC I	BORING NO:	208 (D.S)
CONTRACTOR:	Alliance	DRILLER:	Ben Grim
LOGGED BY:	Joe Mello	DATE:	9-30-97
CHECKED BY:		DATE:	
BORING LOCATION:	South of RR tracks. W. of Raymark site		

PAGE: 1 OF 1



FLUSH MOUNT PROTECTIVE CASING: 8" diameter traffic rated

GROUND ELEVATION: 23.99'

SAND DRAIN LAYER

LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.24'
TYPE OF SURFACE SEAL	Quikrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	1/2" steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.25"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	bentonite chips
DEPTH TOP OF SEAL (Ft.)	4'
TYPE OF SEAL	(3/8") bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	10'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	13'
DIAMETER OF BOREHOLE (In.)	8.75 (8" casing)
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.006" factory
PERVIOUS SECTION I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	#00N
DEPTH BOTTOM OF PERVIOUS SECTION	28'
DEPTH BOTTOM OF FILTER PACK (Ft.)	29'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips MW-208D
END OF BORING	78'

Note:
- boring advanced w/D&W
- no centralizers

Depth bottom of secondary filter #000 =11

MW-208D, well constructed below MW-208S in same borehole

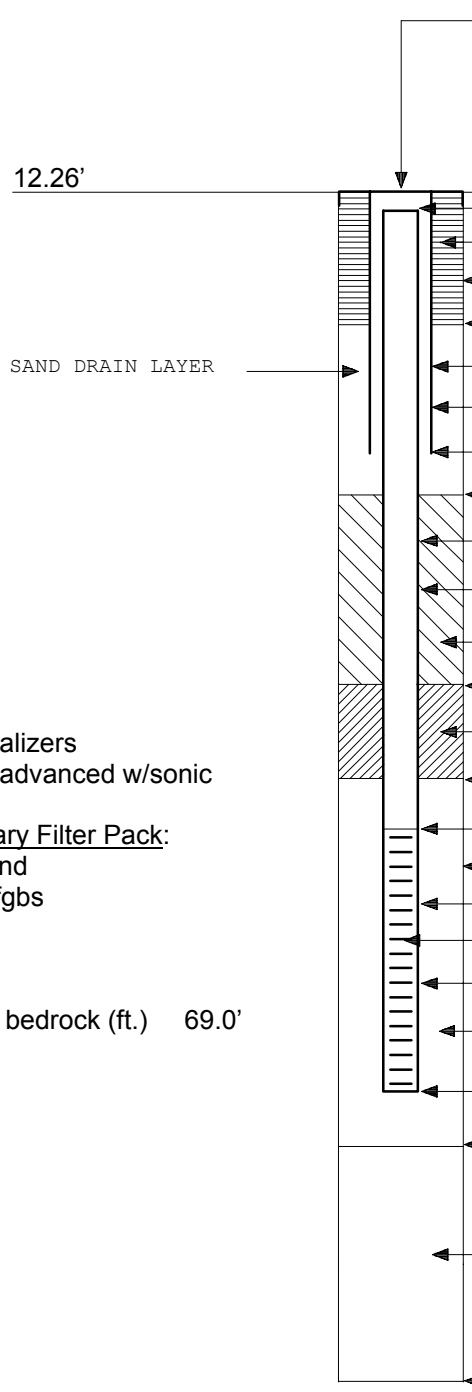
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-209B
CLIENT:	US EPA, RAC I	BORING NO:	209B (New)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-15-97
CHECKED BY:		DATE:	
BORING LOCATION:	Stratford Shopping Center - parking lot		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.19'
TYPE OF SURFACE SEAL	Rebar enforced Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18-24" (surface)
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.05" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL (Ft.)	72'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	82'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	85
DIAMETER OF BOREHOLE (In.)	5'
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory
PERVIOUS SECTION I.D.: 2.05" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	100'
DEPTH BOTTOM OF FILTER PACK (Ft.)	101'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	none
END OF BORING	101'

Note:
- 3 centralizers
- boring advanced w/sonic

Secondary Filter Pack:
- 000 sand
- 82-83 fgbs

depth of bedrock (ft.) 69.0'

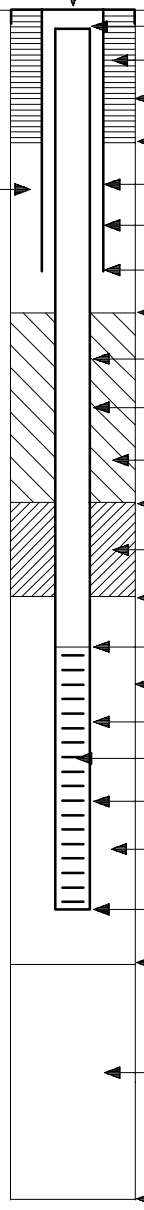
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	209D
CLIENT:	US EPA, RAC I	BORING NO:	209D
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-22-97
CHECKED BY:		DATE:	
BORING LOCATION:	Stratford Shopping Center - parking lot - front		

PAGE: 1 OF 1



FLUSH MOUNT PROTECTIVE CASING

GROUND ELEVATION 12.29'

SAND DRAIN LAYER

LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.28'
TYPE OF SURFACE SEAL	Quikrete
DIA. SURFACE SEAL BGS (In.)	18-24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL (Ft.)	34'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	54'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	58.3'
DIAMETER OF BOREHOLE (In.)	6"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	68.3'
DEPTH BOTTOM OF FILTER PACK (Ft.)	69'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	none
END OF BORING	69'

Note:
- 2 centralizers
- boring advanced w/sonic

Secondary Filter Pack:
- 000 sand
- 54-55 fbgs

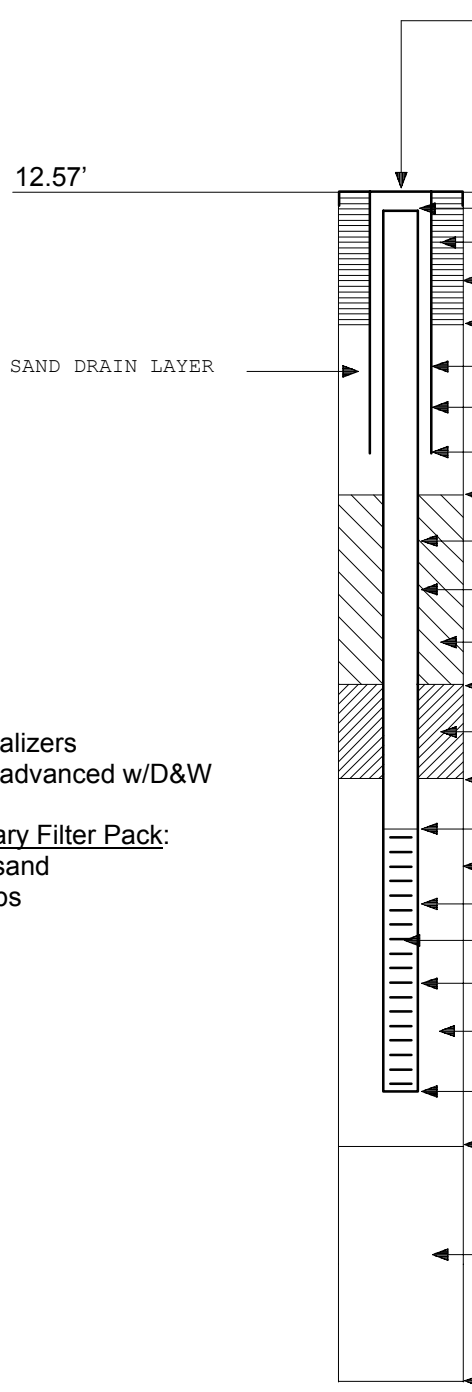
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	209S
CLIENT:	US EPA, RAC I	BORING NO:	209S
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-10-97
CHECKED BY:		DATE:	
BORING LOCATION:	Stratford Shopping Center - parking lot		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.32'
TYPE OF SURFACE SEAL	Quikrete
DIA. SURFACE SEAL BGS (In.)	14"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.66
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	none
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	med. bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	3'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5'
DIAMETER OF BOREHOLE (In.)	8"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.006" factory
PERVIOUS SECTION I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00N sand
DEPTH BOTTOM OF PERVIOUS SECTION	13'
DEPTH BOTTOM OF FILTER PACK (Ft.)	14'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips/MW-209B
END OF BORING	91'

Note:
- 2 centralizers
- boring advanced w/D&W

Secondary Filter Pack:
- # 000 sand
- 3-4 fgbs

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

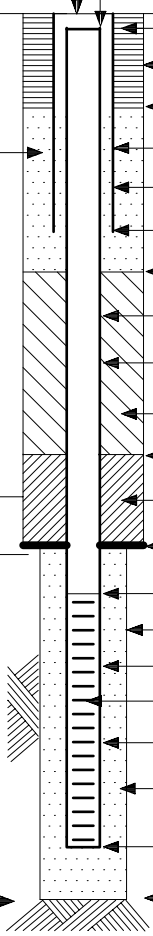
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-210B
CLIENT: U.S EPA Region I
BORING NO: SB-210B
CONTRACTOR: ADT
DRILLER: Jim Philbin
BORING LOCATION: Rear of bldg. Stratford Square Shopping Center.
LOGGED BY: Bob Balykovec
DATE: 9/4/02
CHECKED BY: J. Danieli, D. Hartigan
DATE: 8/18/03, 9/22/03

Elevation Top of Protective Casing 10.46 feet

Elevation Top of Riser Pipe 10.2 feet

GROUND ELEVATION 10.5 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	24" x 24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite slurry
DEPTH TOP OF SEAL (Ft.)	34.4'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	38'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	38.5'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	48.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

SAND DRAIN LAYER

DEPTH TO BEDROCK (Ft.) 35.5'

DEPTH TO RING (Ft.) 38'

END OF BORING @ 51.5 Ft.

Silt Sump from 48.5' – 49.7'

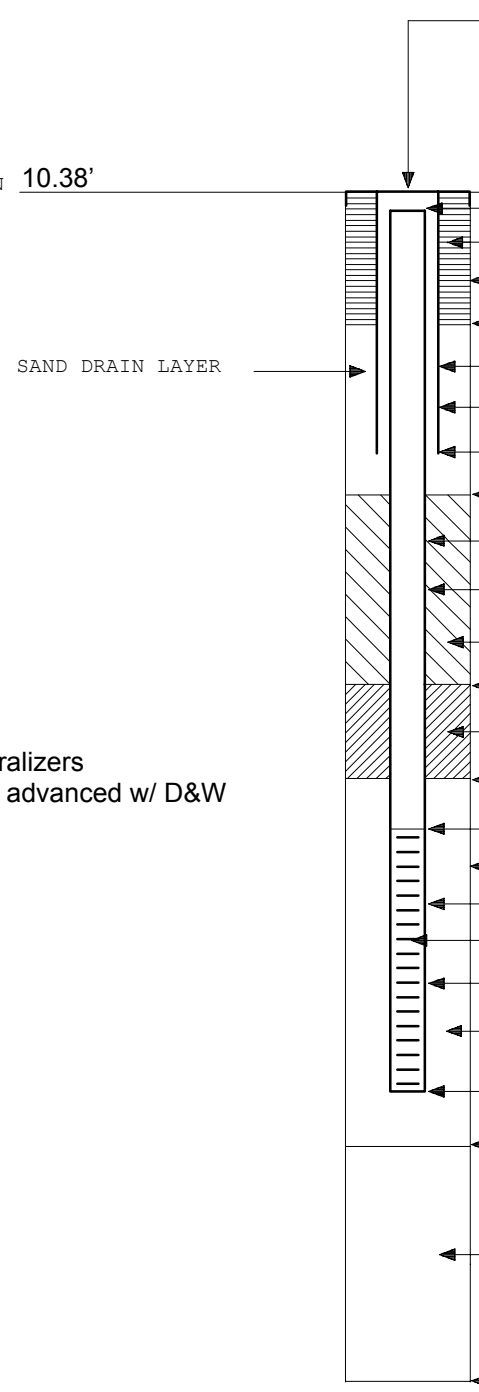
GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

TtNUS form 0060

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	210D
CLIENT:	US EPA, RAC I	BORING NO:	210 (New)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-26-97
CHECKED BY:		DATE:	
BORING LOCATION:	Stratford Shopping Center - behind the builings		
PAGE:	1 OF 1		



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.32'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18 – 24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	MW-210S
DEPTH TOP OF SEAL (Ft.)	23'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	25'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	27'
DIAMETER OF BOREHOLE (In.)	6"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	0 sand
DEPTH BOTTOM OF PERVIOUS SECTION	32'
DEPTH BOTTOM OF FILTER PACK (Ft.)	33'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips
END OF BORING	40'

Note:
- 2 centralizers
- boring advanced w/ D&W

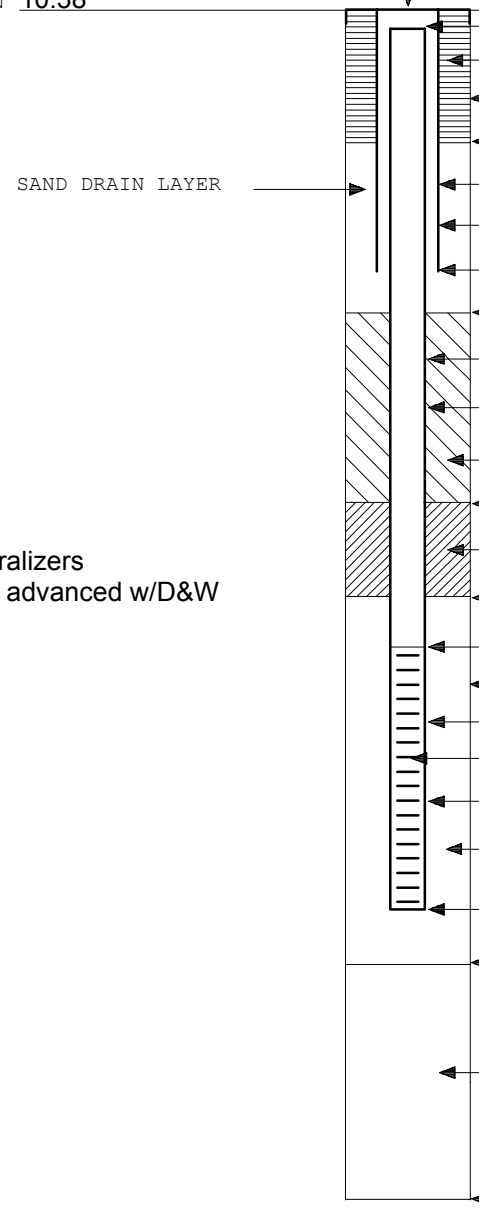
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	210S
CLIENT:	US EPA, RAC I	BORING NO:	210(New)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-26-97
CHECKED BY:		DATE:	
BORING LOCATION:	Stratford Shopping Center - behind the buildings		

PAGE: 1 OF 1



GROUND ELEVATION 10.38'

SAND DRAIN LAYER

LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.33'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18 - 24
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	none
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7'
DIAMETER OF BOREHOLE (In.)	8'
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	22'
DEPTH BOTTOM OF FILTER PACK (Ft.)	23'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips/MW-210D
END OF BORING	40'

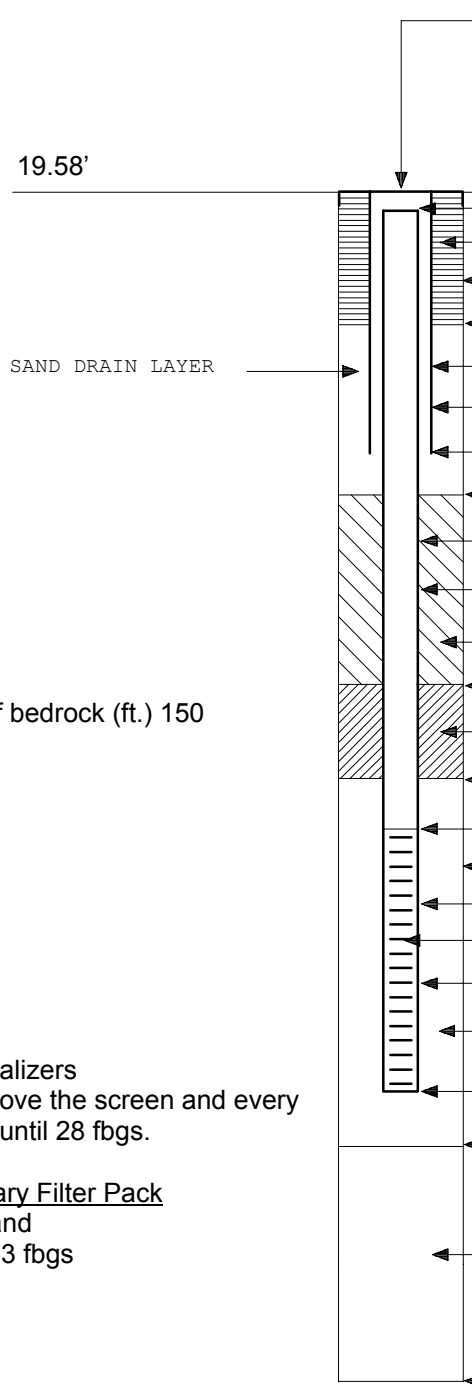
Note:
- 2 centralizers
- boring advanced w/D&W

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Raymark OU2, Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-211B
CLIENT:	EPA - New England	BORING NO:	211 (B.S)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-13-97
CHECKED BY:		DATE:	
BORING LOCATION:	On DOT property N. of Rte. 95		
		PAGE:	1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.33'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18 – 24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.05" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	cement/bent. chips/bent. grout/MW211S
DEPTH TOP OF SEAL (Ft.)	136.5'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	152'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	155'
DIAMETER OF BOREHOLE (In.)	5"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.: 2.05" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	170'
DEPTH BOTTOM OF FILTER PACK (Ft.)	170.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Drill cuttings
END OF BORING	171'

Note:
- 4 centralizers
- 5 ft. above the screen and every 30 after until 28 fbgs.

Secondary Filter Pack
- 00N sand
- 152-153 fbgs

G E N E R A L N O T E

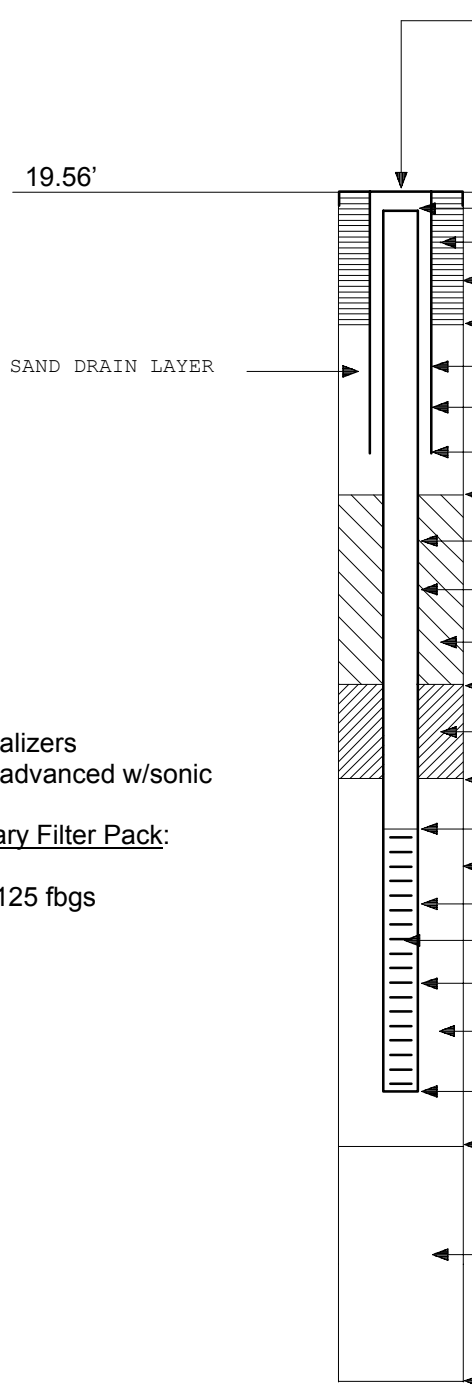
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	211D
CLIENT:	US EPA, RAC I	BORING NO:	211D.M
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-25-97
CHECKED BY:		DATE:	

BORING LOCATION: DOT property. N. of Rte 95 on grass covered section

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.27'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18 –24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	MW-211M/grout and chips
DEPTH TOP OF SEAL (Ft.)	105'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	123.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	128'
DIAMETER OF BOREHOLE (In.)	6"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	143'
DEPTH BOTTOM OF FILTER PACK (Ft.)	144'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	none
END OF BORING	144'

Note:
- 4 centralizers
- boring advanced w/sonic

Secondary Filter Pack:
- # 000
- 123.5-125 fbgs

G E N E R A L N O T E

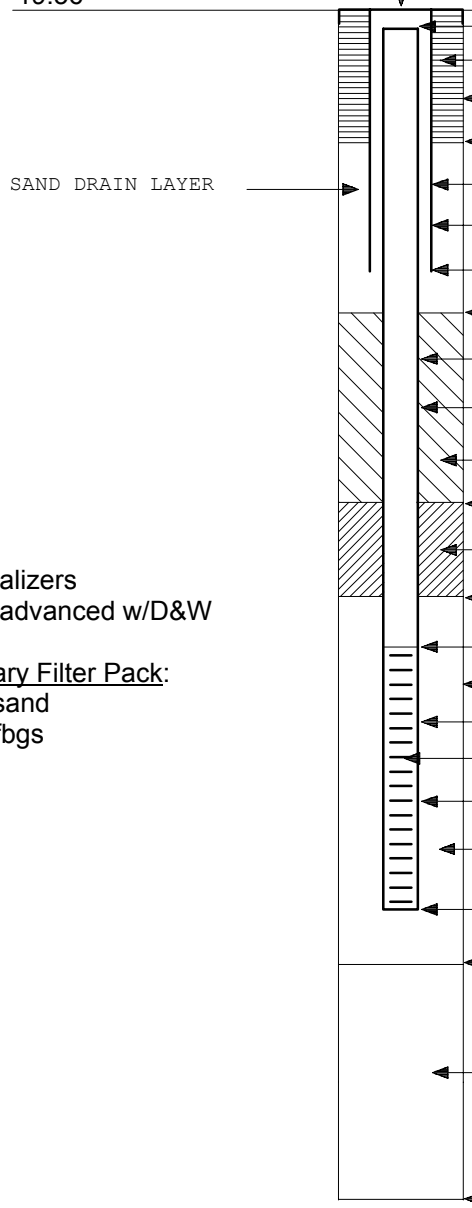
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	211M
CLIENT:	US EPA, RAC I	BORING NO:	211 (D.M)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-25-97
CHECKED BY:		DATE:	

BORING LOCATION: DOT property. N. of Rte 95. on grass covered section

PAGE: 1 OF 1



FLUSH MOUNT PROTECTIVE CASING	
GROUND ELEVATION	19.56'
LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.28'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18 – 24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
SAND DRAIN LAYER	
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.:	2.03" O.D.: 2.30"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite/grout
DEPTH TOP OF SEAL (Ft.)	82'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	94'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	97'
DIAMETER OF BOREHOLE (In.)	8"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory
PERVIOUS SECTION I.D.:	2.03" O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	104.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	105'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	MW-211D/bentonite chips
END OF BORING	144'

Note:
- 3 centralizers
- boring advanced w/D&W

Secondary Filter Pack:
- # 000 sand
- 94-95 fbgs

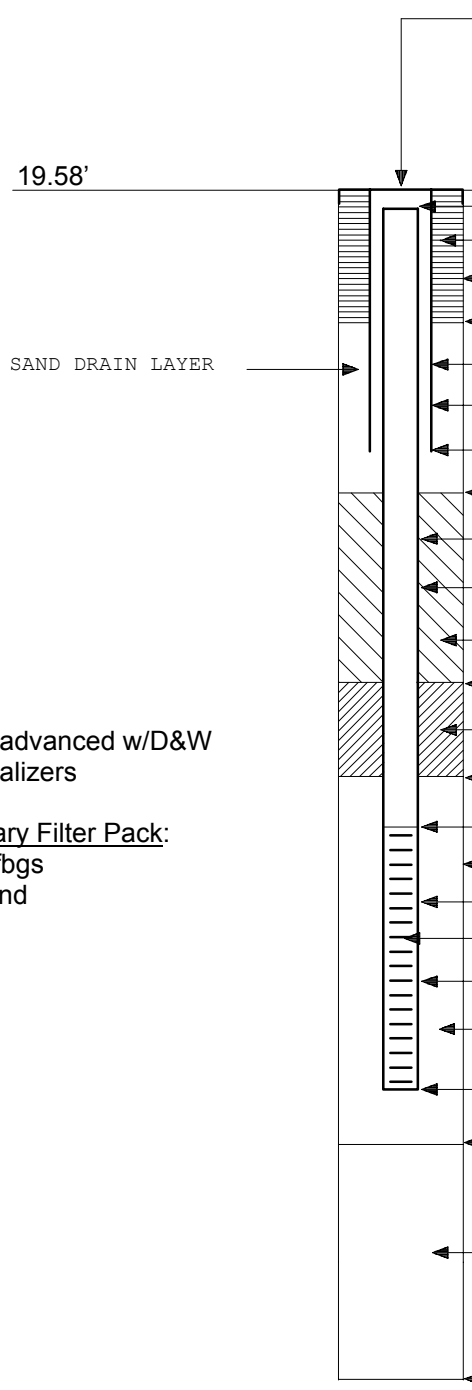
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-211S
CLIENT:	US EPA, RAC I	BORING NO:	211 (B.S)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-13-97
CHECKED BY:		DATE:	
BORING LOCATION:	On DOT property N. of Rte 95		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18-24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.05" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	none
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	9'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	12'
DIAMETER OF BOREHOLE (In.)	8"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.: 2.05" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	27'
DEPTH BOTTOM OF FILTER PACK (Ft.)	28'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Bentonite chips, cement, bentonite grout & MW-211B
END OF BORING	171'

Note:
- boring advanced w/D&W
- 0 centralizers

Secondary Filter Pack:
- 9 - 10 fbgs
- 000 sand

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

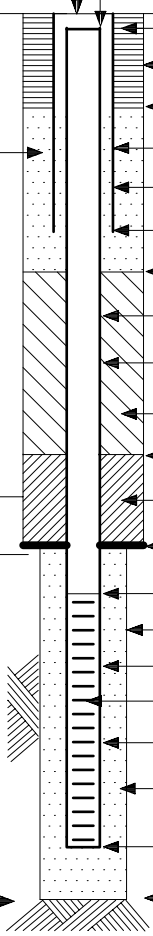
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2/ Phase I Groundwater
PROJECT NO: 7607-0320
PROJECT LOCATION: Stratford CT
WELL NO: MW 212B
CLIENT: US EPA, Region 1 RAC
BORING NO: SB 212
CONTRACTOR: Alliance
DRILLER: Ben Grim
BORING LOCATION: Ferry Boulevard
LOGGED BY: Jeff MacManus
DATE: 09/26/97
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 12.03 ft

ELEVATION TOP OF RISER PIPE 11.82'

GROUND ELEVATION 12.03'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.21'
TYPE OF SURFACE SEAL	Quickrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.0'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.38"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	64'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	69'
DIAMETER OF BOREHOLE (In.)	4.5"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.006" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.38"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	00N
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	84'
DEPTH BOTTOM OF FILTER PACK (Ft.)	85'

SAND DRAIN LAYER

DEPTH TO BEDROCK (Ft.) 61.0

DEPTH TO RING (Ft.) N/A

000 Sand 64'-65'

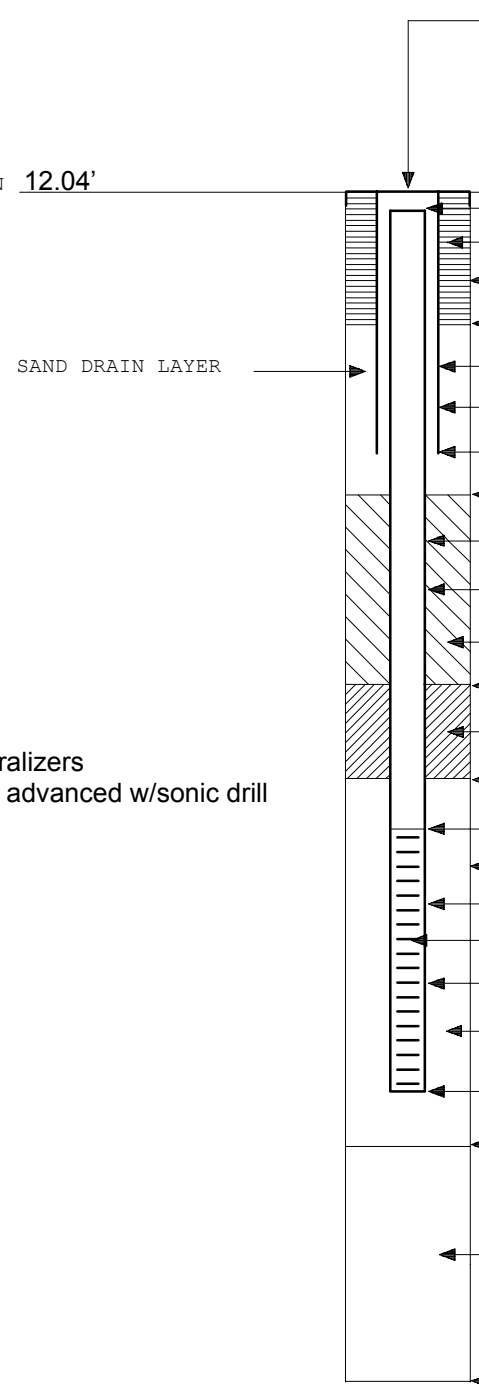
END OF BORING @ 85.5 Ft.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	212D
CLIENT:	US EPA, RAC I	BORING NO:	SB-212 (M.D)
CONTRACTOR:	Alliance	DRILLER:	Ben Grim
LOGGED BY:	Joe Mello	DATE:	9-27-97
CHECKED BY:		DATE:	
BORING LOCATION:	S. of Rte 95. E. of Schock's Auto		
PAGE:	1 OF 1		



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.24'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.25"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	1:12 bent/cement/grout [MW - 212M (30-44 fbgs)]
DEPTH TOP OF SEAL (Ft.)	44'
TYPE OF SEAL	med. bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	47'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	50'
DIAMETER OF BOREHOLE (In.)	6"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.006" factory slotted
PERVIOUS SECTION I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00N
DEPTH BOTTOM OF PERVIOUS SECTION	55'
DEPTH BOTTOM OF FILTER PACK (Ft.)	55.8'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	none used
END OF BORING	55.8'

Note:
- 2 centralizers
- boring advanced w/sonic drill

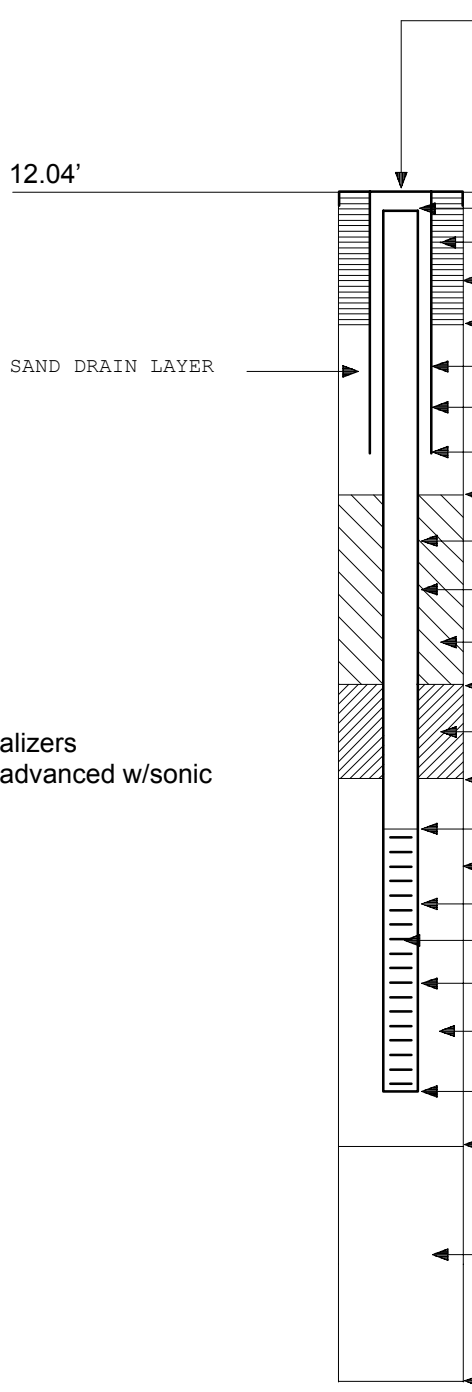
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	212M
CLIENT:	US EPA, RAC I	BORING NO:	212 (M.D)
CONTRACTOR:	Alliance	DRILLER:	Ben Grim
LOGGED BY:	Joe Mello	DATE:	9-28-97
CHECKED BY:		DATE:	
BORING LOCATION:	S. of Rte 95. E. of Schock's Auto		

PAGE: 1 OF 1



GROUND ELEVATION 12.04'

LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.30'
TYPE OF SURFACE SEAL	Quikete cement
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.25"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	1:12 bent./cement/grout
DEPTH TOP OF SEAL (Ft.)	29.5
TYPE OF SEAL	med. bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	35'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	38'
DIAMETER OF BOREHOLE (In.)	9"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 0
DEPTH BOTTOM OF PERVIOUS SECTION	43'
DEPTH BOTTOM OF FILTER PACK (Ft.)	44'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	MW-212D (44-55.8 fbgs)
END OF BORING	55.8'

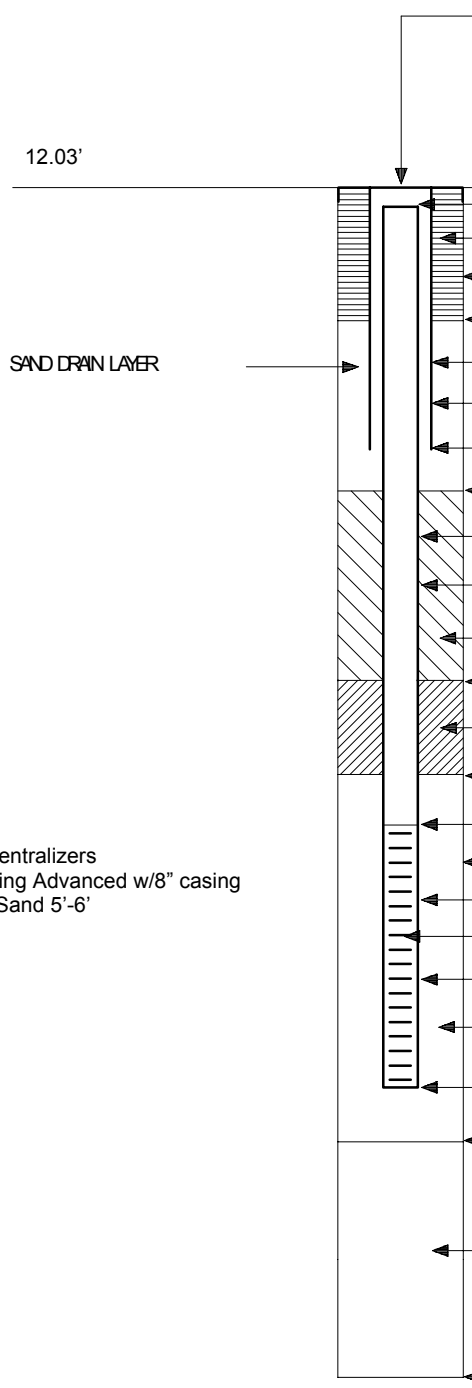
Note:
- 2 centralizers
- boring advanced w/sonic

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark OU2, Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW 212S
CLIENT:	US EPA, RAC I	BORING NO:	SB 212
CONTRACTOR:	Alliance	DRILLER:	Ben Grim
LOGGED BY:	Jeff MacManus	DATE:	09/26/97
CHECKED BY:		DATE:	
BORING LOCATION:	Ferry Boulevard		
PAGE:	1 OF 1		



GROUND ELEVATION	12.03'
LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.23'
TYPE OF SURFACE SEAL	Quikrete
DIA. SURFACE SEAL BGS (In.)	18" x 18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.38"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7'
DIAMETER OF BOREHOLE (In.)	8.75"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.38"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	0 sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	22'
DEPTH BOTTOM OF FILTER PACK (Ft.)	23'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Bentonite Chips
END OF BORING	85.5'

- 0 Centralizers
- Boring Advanced w/8" casing
- 00 Sand 5'-6'

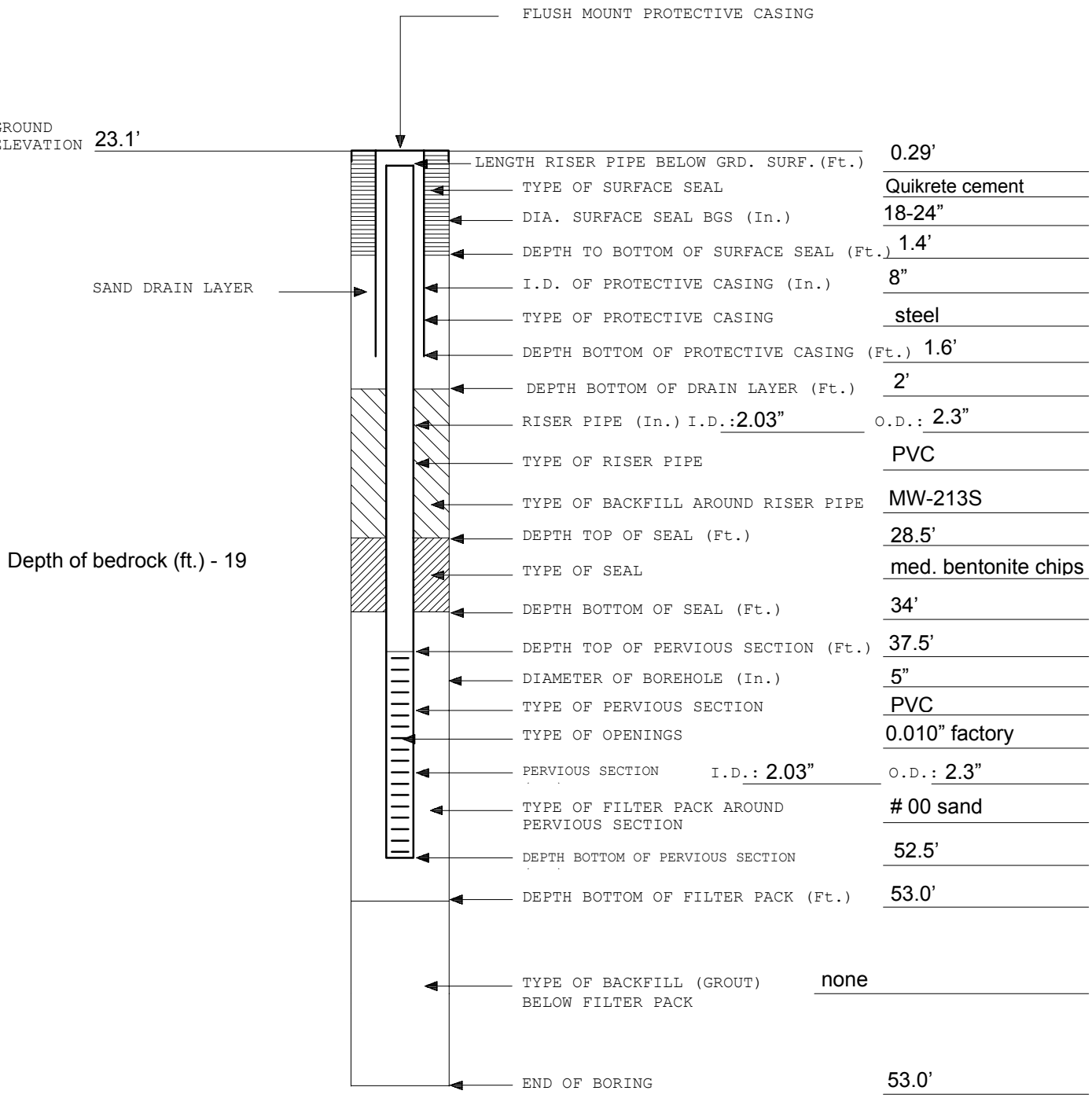
GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	213B
CLIENT:	US EPA, RAC I	BORING NO:	SB-213
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-21-97
CHECKED BY:		DATE:	
BORING LOCATION:	Minor Ave. in front of #53		

PAGE: 1 OF 1



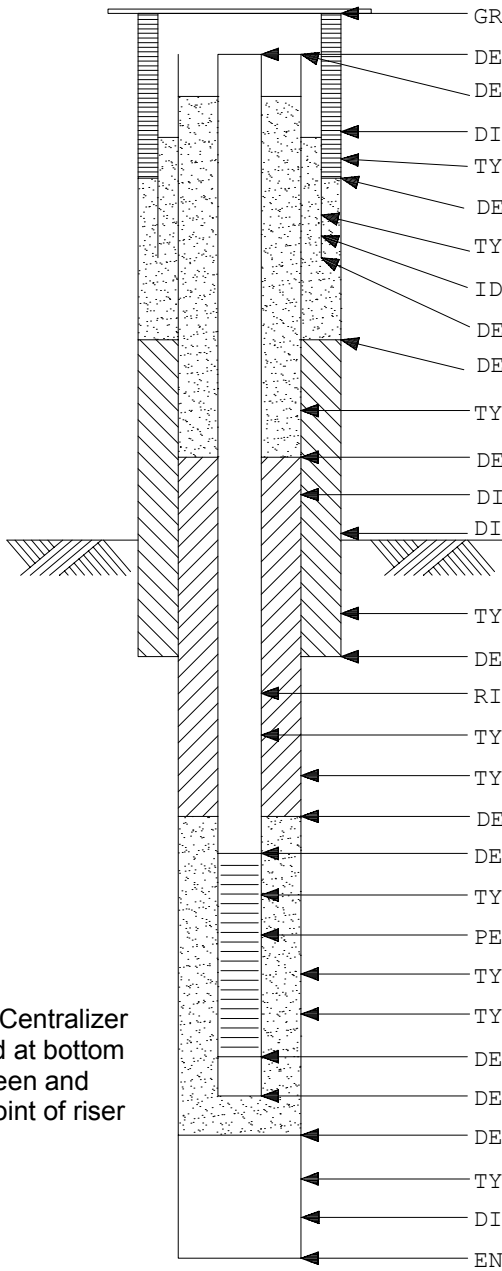
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-213DB
CLIENT: U.S EPA Region I
BORING NO: SB-213DB
CONTRACTOR: ADT
DRILLER: D. Walker, L. Darrow
BORING LOCATION: Minor Ave.
LOGGED BY: J. Lambert
DATE: 10/23/02, 11/25/02
CHECKED BY: T. Dorgan
DATE: 9-11-03

RISER PIPE ELEVATION (Ft.) 22.9'
PROTECTIVE CASING ELEVATION (Ft.) 23.4'



GROUND ELEVATION (Ft.) 23.4'
DEPTH TOP OF RISER PIPE (Ft.) 0.6' BGS
DEPTH TOP OF OUTER CASING (Ft.) 0.5' BGS
DIAMETER OF SURFACE SEAL (In.) 34"
TYPE OF SURFACE SEAL Concrete Pad
DEPTH BOTTOM OF SURFACE SEAL (Ft.) 0.9' BGS
TYPE OF PROTECTIVE CASING Steel roadbox
ID OF PROTECTIVE CASING (In.) 12"
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.) 1.0' BGS
DEPTH BOTTOM OF DRAIN LAYER (Ft.) 5' BGS
TYPE OF INNER BACKFILL Medium Sand
DEPTH TOP OF SEAL (Ft.) 5' BGS
DIAMETER OF OVERBURDEN CASING (In.) 6"
DIAMETER OF OVERBURDEN BOREHOLE (In.) 12"
BEDROCK (Ft.) 25.0' BGS
TYPE OF OUTER SEAL Portland Cement/Bentonite mix
DEPTH BOTTOM OF ROCK SOCKET (Ft.) 30' BGS
RISER PIPE DIAMETER (In.) ID 2" OD 2 3/8"
TYPE OF RISER PIPE PVC
TYPE OF SEAL Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.) 72' BGS
DEPTH TOP OF PERVIOUS SECTION (Ft.) 74' BGS
TYPE OF PERVIOUS SECTION PVC
PERVIOUS SECTION DIAMETER (In.) ID 2" OD 2 3/8"
TYPE OF OPENINGS 0.010"
TYPE OF FILTER PACK Medium Sand (#0)
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.) 84' BGS
DEPTH BOTTOM OF SUMP (Ft.) 85.2' BGS
DEPTH BOTTOM OF FILTER PACK (Ft.) 86.5' BGS
TYPE OF BACKFILL BELOW FILTER PACK Bentonite Chips (hydrated)
DIAMETER OF BOREHOLE (In.) 6"
END OF BORING (Ft.) 130' BGS

Note: Centralizer placed at bottom of screen and mid point of riser

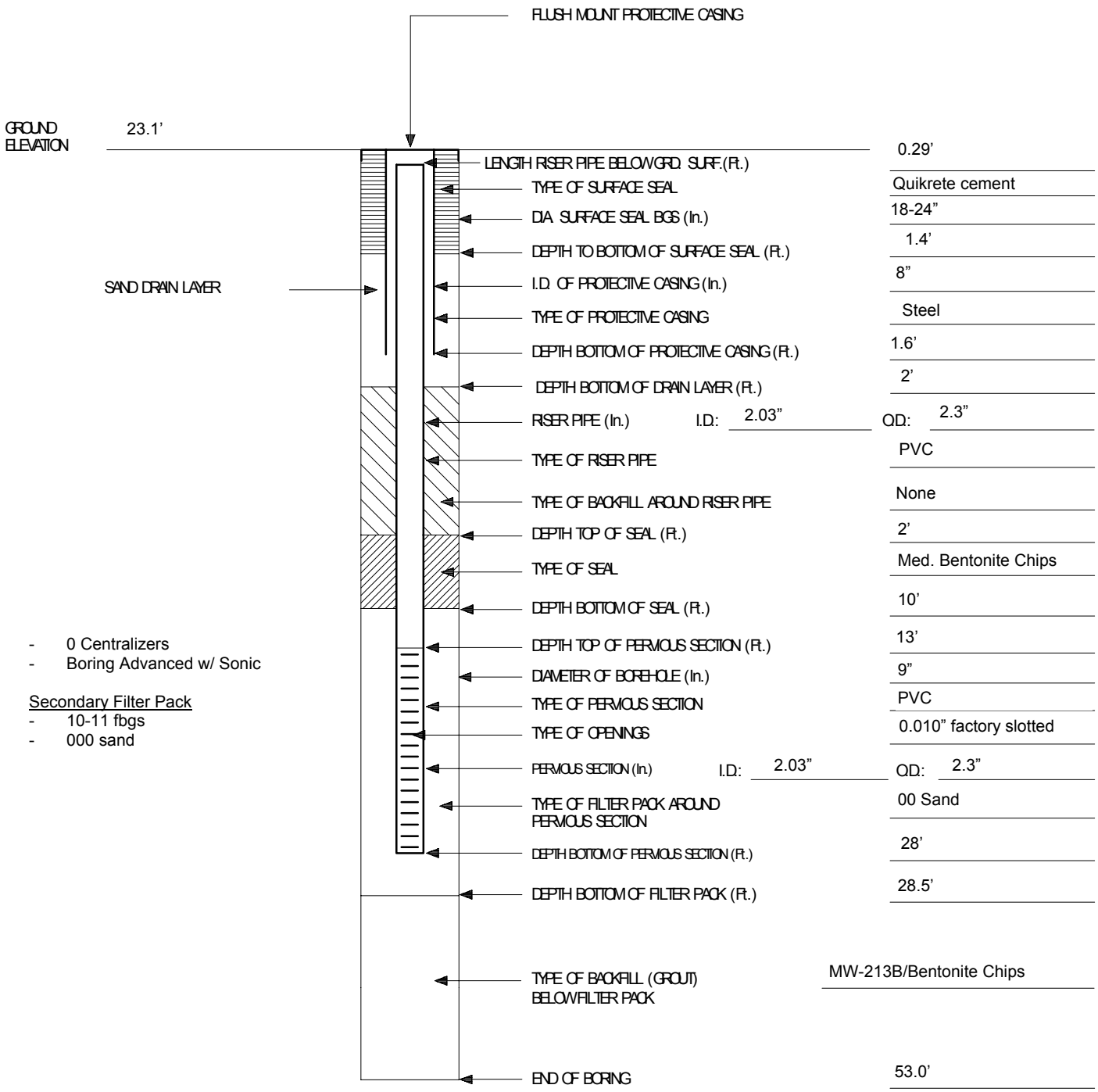
* BGS - BELOW GROUND SURFACE

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark OU2/Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-213S
CLIENT:	US EPA, RAC I	BORING NO:	SB-213
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-21-97
CHECKED BY:		DATE:	
BORING LOCATION:	Minor Ave. in front of 53.		
PAGE:	1 OF 1		



GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

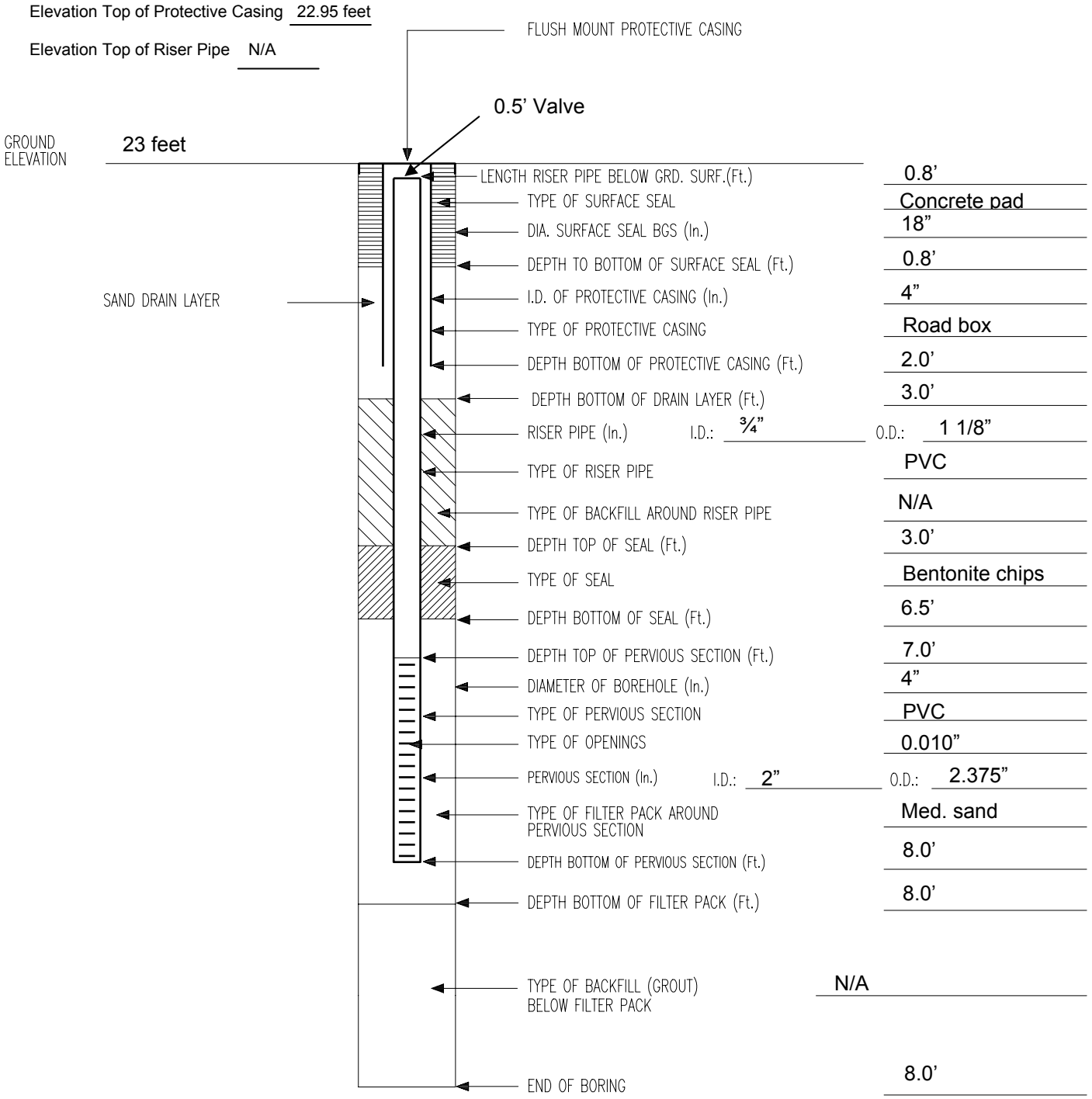
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-213SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-213SG
CONTRACTOR:	ADT	BORING LOCATION:	Across from 72 Minor Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/5/02
CHECKED BY:	J. Danieli	DATE:	8/18/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 22.95 feet

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.8'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: ¾" O.D.:	1 1/8"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

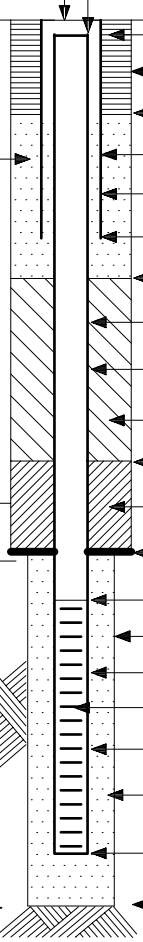
TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2		PROJECT NO: N4236-0320	
PROJECT LOCATION: Stratford, CT		WELL NO: MW-214B	
CLIENT: U.S EPA Region I		BORING NO: SB-214B	
CONTRACTOR: ADT	DRILLER: Les Darrow	BORING LOCATION: In front of 462 Housatonic Ave residence	
LOGGED BY: C. Rousseau	DATE: 9/12/02		
CHECKED BY: J. Danieli, D. Hartigan	DATE: 8/18/03, 9/22/03	PAGE: 1 OF 1	

Elevation Top of Protective Casing 20.21 feet

Elevation Top of Riser Pipe 19.68 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.4'
GROUND ELEVATION	20.2 feet
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.01'
SAND DRAIN LAYER	
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.2"
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite, slurry, grout
DEPTH TO BEDROCK (Ft.) 54'	
DEPTH TOP OF SEAL (Ft.)	54'
TYPE OF SEAL	Bentonite chips
DEPTH TO RING (Ft.) 56'	
DEPTH BOTTOM OF SEAL (Ft.)	56'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	55.5'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	66'
END OF BORING @ 69' Ft.	DEPTH BOTTOM OF FILTER PACK (Ft.) 69'
	Depth Bottom of Sump (ft) 67.2'

Sump approx. 1.2 ft.

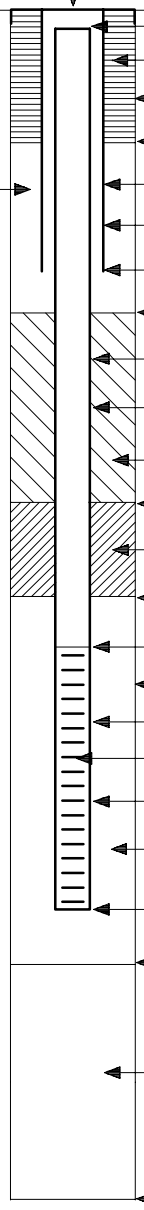
G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

TtNUS form 0060

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-214D
CLIENT:	US EPA, RAC I	BORING NO:	SB 214
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-7-97
CHECKED BY:		DATE:	
BORING LOCATION:	Housatonic Ave.		
PAGE:	1 OF 1		



GROUND ELEVATION 20.05'

SAND DRAIN LAYER

MW 214S
Constructed in same borehole

Note:
- 1 centralizer
- boring advanced w/sonic

- # 00N sand
- 40 - 41

FLUSH MOUNT PROTECTIVE CASING	
LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.31'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.0'
RISER PIPE (In.) I.D.:	2" O.D.: 2.25"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	MW214S/bent. chips
DEPTH TOP OF SEAL (Ft.)	28'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	40'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	42.8'
DIAMETER OF BOREHOLE (In.)	6.5"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.:	2" O.D.: 2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	47.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	48'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips
END OF BORING	56'

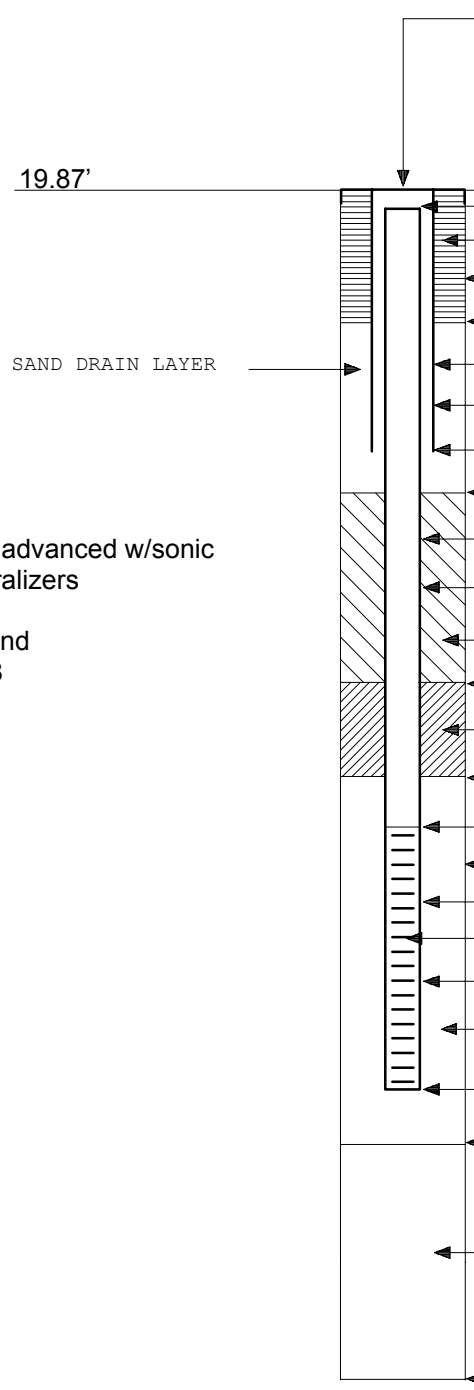
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-214M
CLIENT:	US EPA, RAC I	BORING NO:	SB 214M
CONTRACTOR:	Alliance	BORING LOCATION:	Housatonic Ave.
DRILLER:	Ron Ball		
LOGGED BY:	Joe Mello	DATE:	10-8-97
CHECKED BY:		DATE:	

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.49'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2" O.D.:	2.25"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite chips
DEPTH TOP OF SEAL (Ft.)	22'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	27'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	30.5'
DIAMETER OF BOREHOLE (In.)	6.5"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 0 sand
DEPTH BOTTOM OF PERVIOUS SECTION	40.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	41'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	41'

Note:
- boring advanced w/sonic
- 0 centralizers

- 000 sand
- 27 - 28

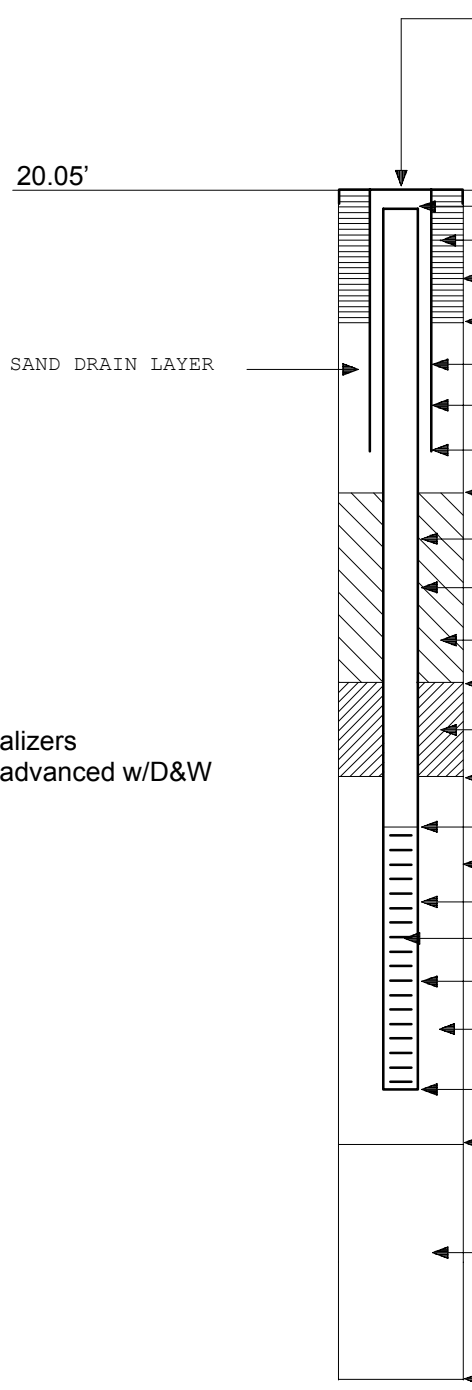
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-214S
CLIENT:	US EPA, RAC I	BORING NO:	SB 214
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-7-97
CHECKED BY:		DATE:	
BORING LOCATION:	Housatonic Ave.		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.30'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2" O.D.:	2.25"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	bentonite chips
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	8'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	12.3'
DIAMETER OF BOREHOLE (In.)	8.75"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory
PERVIOUS SECTION I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	27.3'
DEPTH BOTTOM OF FILTER PACK (Ft.)	28'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips (MW-214D)
END OF BORING	56'

Note:
- 2 centralizers
- boring advanced w/D&W

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

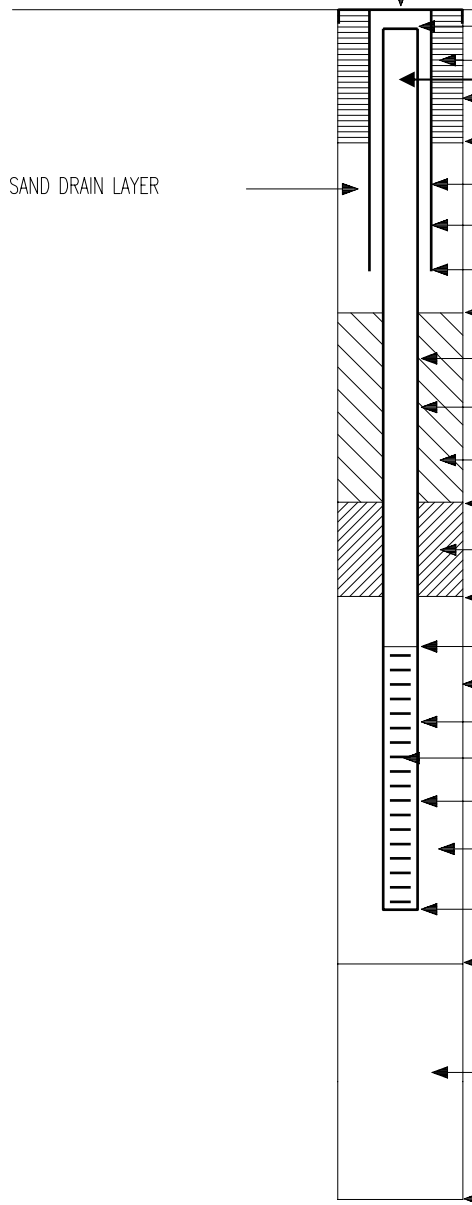
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-214SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-214SG
CONTRACTOR:	ADT	DRILLER:	Marques Larabie
LOGGED BY:	J. Lambert	DATE:	10/3/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
BORING LOCATION:	462 Housatonic Avenue		

PAGE: 1 OF 1

Elevation Top of Protective Casing 20.66 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 20.6 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete pad under turf
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: ¾” O.D.:	1 1/8”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	6.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.9’
DIAMETER OF BOREHOLE (In.)	0-5’ = 5”, 5-8.1’ = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 1.5” O.D.:	1.875”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0’
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.1’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.1’

Depth bottom of turf 0.5’

GENERAL NOTE:

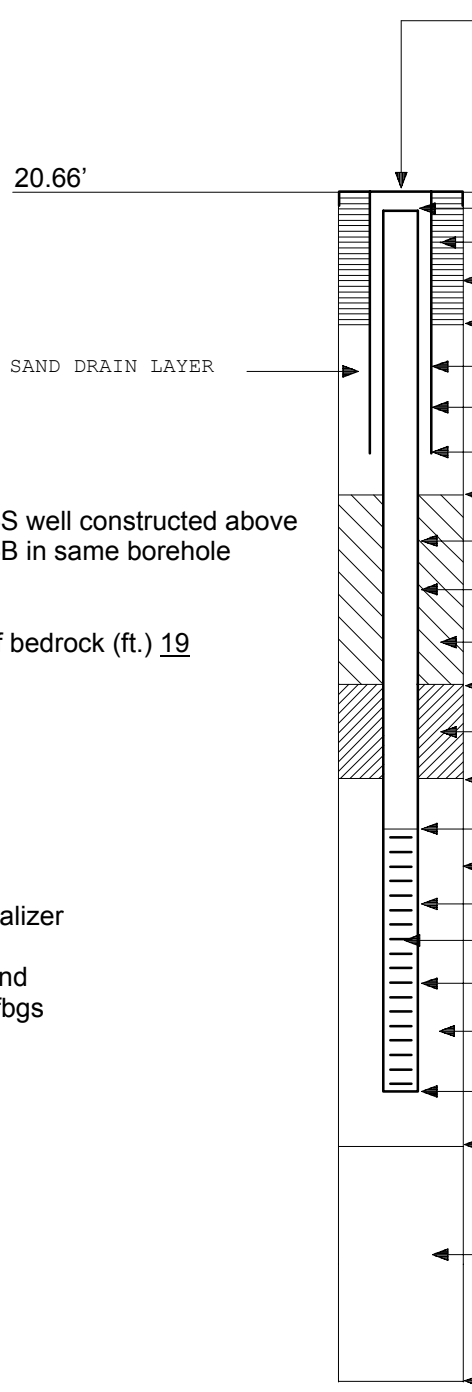
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-215B
CLIENT:	US EPA, RAC I	BORING NO:	SB-215
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-6-97
CHECKED BY:		DATE:	
BORING LOCATION:	Willow Ave.		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.27'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2" O.D.:	2.5"
TYPE OF RISER PIPE	schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	MW215S/bent. chips
DEPTH TOP OF SEAL (Ft.)	19.3'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	25'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	28'
DIAMETER OF BOREHOLE (In.)	4.5"
TYPE OF PERVIOUS SECTION	schedule 40 PVC
TYPE OF OPENINGS	0.006" factory
PERVIOUS SECTION I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00N
DEPTH BOTTOM OF PERVIOUS SECTION	38'
DEPTH BOTTOM OF FILTER PACK (Ft.)	39'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Drill cuttings
END OF BORING	40.6'

MW 215S well constructed above MW 215B in same borehole

Depth of bedrock (ft.) 19

Note:
- 1 centralizer
- 000 sand
- 25-26 fbgs

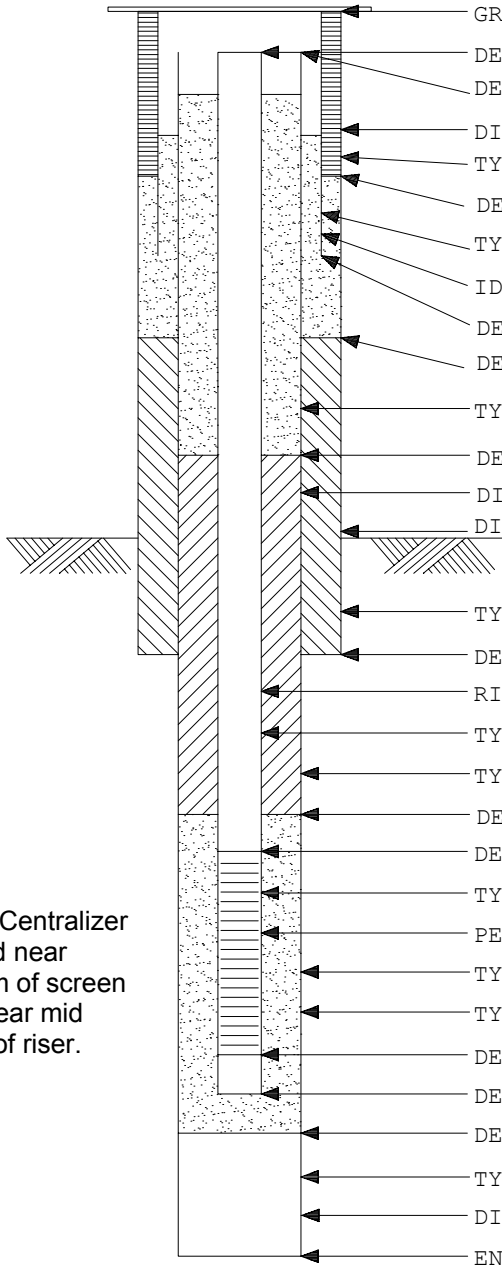
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-215DB
CLIENT: U.S EPA Region I
BORING NO: SB-215DB
CONTRACTOR: ADT
DRILLER: D. Walker, L. Darrow
BORING LOCATION: Willow Ave.
LOGGED BY: J. Lambert
DATE: 10/24/02, 11/22/02
CHECKED BY: Tracy Dorgan
DATE: 9/11/03

RISER PIPE ELEVATION (Ft.) 20.05'
PROTECTIVE CASING ELEVATION (Ft.) 20.6'



GROUND ELEVATION (Ft.) 20.6'
DEPTH TOP OF RISER PIPE (Ft.) 0.7' BGS
DEPTH TOP OF OUTER CASING (Ft.) 0.4' BGS
DIAMETER OF SURFACE SEAL (In.) 34"
TYPE OF SURFACE SEAL Concrete Pad
DEPTH BOTTOM OF SURFACE SEAL (Ft.) 0.9' BGS
TYPE OF PROTECTIVE CASING Steel roadbox
ID OF PROTECTIVE CASING (In.) 12"
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.) 1.0' BGS
DEPTH BOTTOM OF DRAIN LAYER (Ft.) 4' BGS
TYPE OF INNER BACKFILL Medium Sand
DEPTH TOP OF SEAL (Ft.) 4' BGS
DIAMETER OF OVERBURDEN CASING (In.) 6"
DIAMETER OF OVERBURDEN BOREHOLE (In.) 12"
BEDROCK (Ft.) 20' BGS
TYPE OF OUTER SEAL Portland Cement/Bentonite mix
DEPTH BOTTOM OF ROCK SOCKET (Ft.) 25' BGS
RISER PIPE DIAMETER (In.) ID 2" OD 2 3/8"
TYPE OF RISER PIPE PVC
TYPE OF SEAL Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.) 42.0' BGS
DEPTH TOP OF PERVIOUS SECTION (Ft.) 44.0' BGS
TYPE OF PERVIOUS SECTION PVC
PERVIOUS SECTION DIAMETER (In.) ID 2" OD 2 3/8"
TYPE OF OPENINGS 0.010"
TYPE OF FILTER PACK Medium Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.) 54.0' BGS
DEPTH BOTTOM OF SUMP (Ft.) 55.2' BGS
DEPTH BOTTOM OF FILTER PACK (Ft.) 55.5' BGS
TYPE OF BACKFILL BELOW FILTER PACK Bentonite Chips (hydrated)
DIAMETER OF BOREHOLE (In.) 6"
END OF BORING (Ft.) 61' BGS

Note: Centralizer placed near bottom of screen and near mid point of riser.

* BGS - BELOW GROUND SURFACE

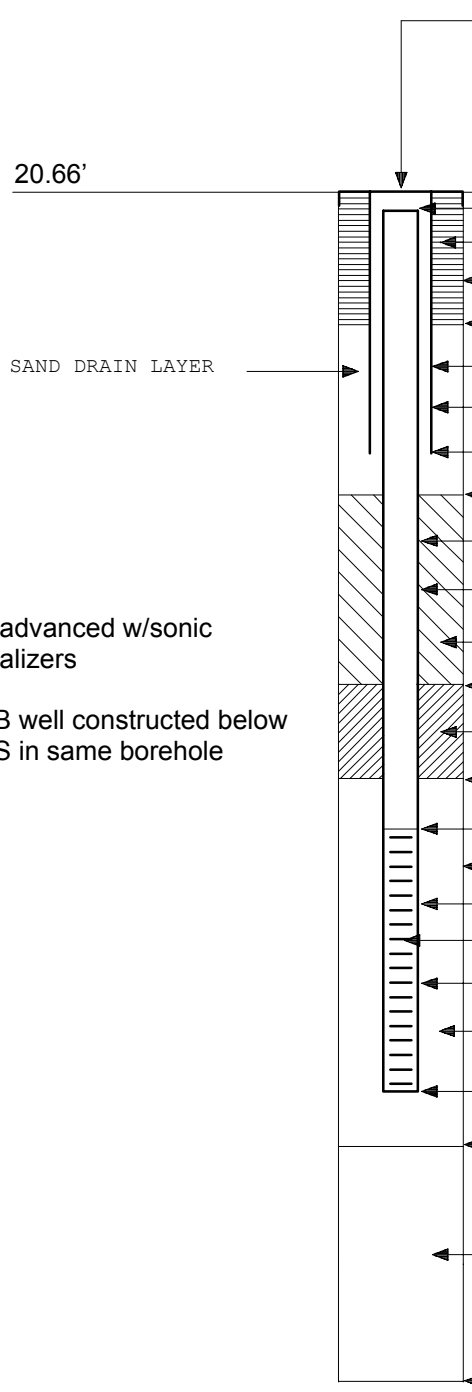
GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-215S
CLIENT:	US EPA, RAC I	BORING NO:	SB 215
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-6-97
CHECKED BY:		DATE:	
BORING LOCATION:	Willow Ave.		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.25'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3'
I.D. OF PROTECTIVE CASING (In.)	18"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2" O.D.:	2.25"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	bentonite chips
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	9'
DIAMETER OF BOREHOLE (In.)	8.75"
TYPE OF PERVIOUS SECTION	schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	19'
DEPTH BOTTOM OF FILTER PACK (Ft.)	19.3'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	bentonite chips, MW215B
END OF BORING	40.6'

Note:
- boring advanced w/sonic
- 0 centralizers

MW215B well constructed below MW215S in same borehole

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

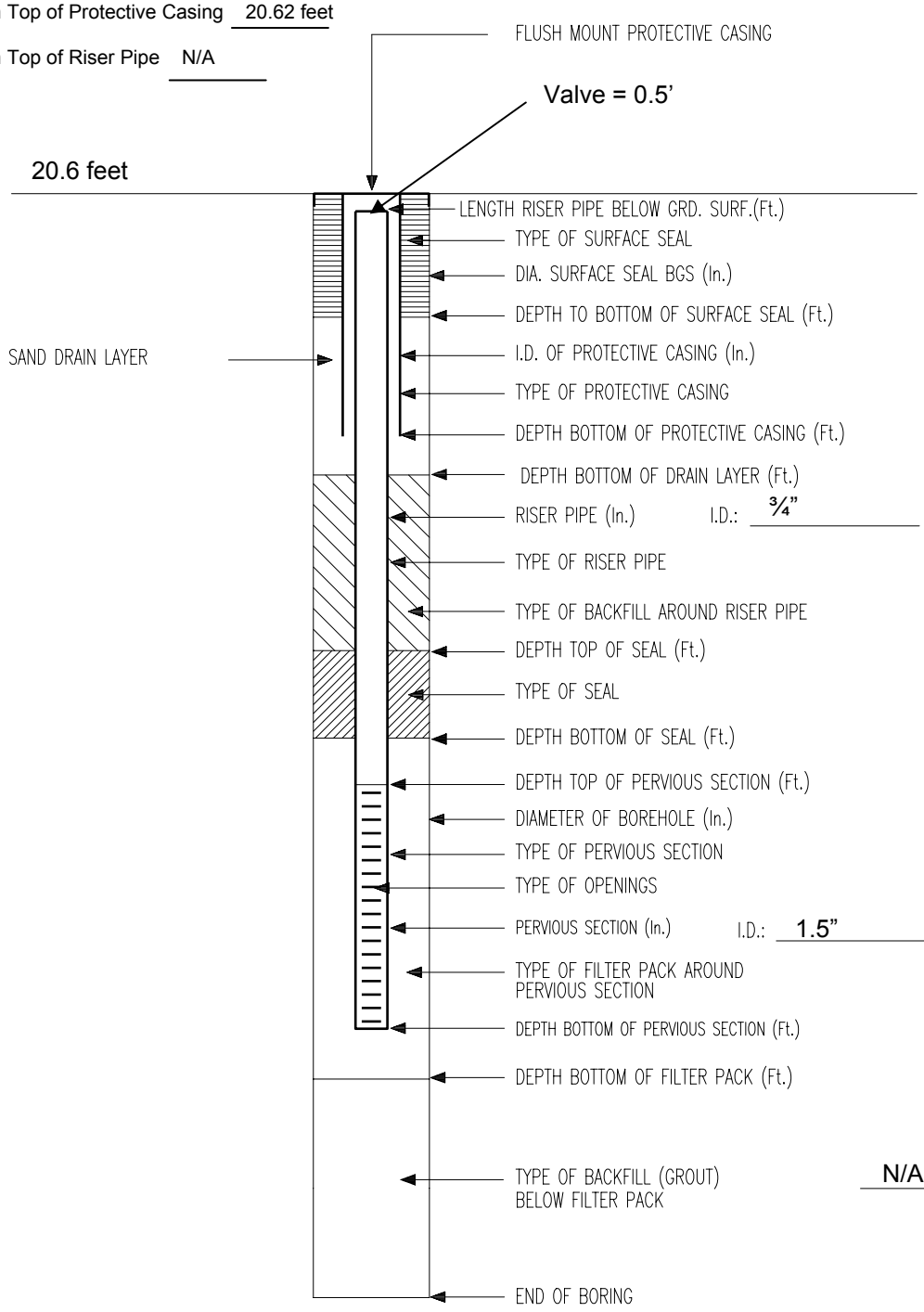
FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-215SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-215SG
CONTRACTOR:	ADT	BORING LOCATION:	
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/7/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
			93 Willow Avenue
		PAGE:	1 OF 1

Elevation Top of Protective Casing 20.62 feet

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.8'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	15"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: ¾" O.D.:	1 1/8"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.3'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 1.5" O.D.:	1.875"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0'

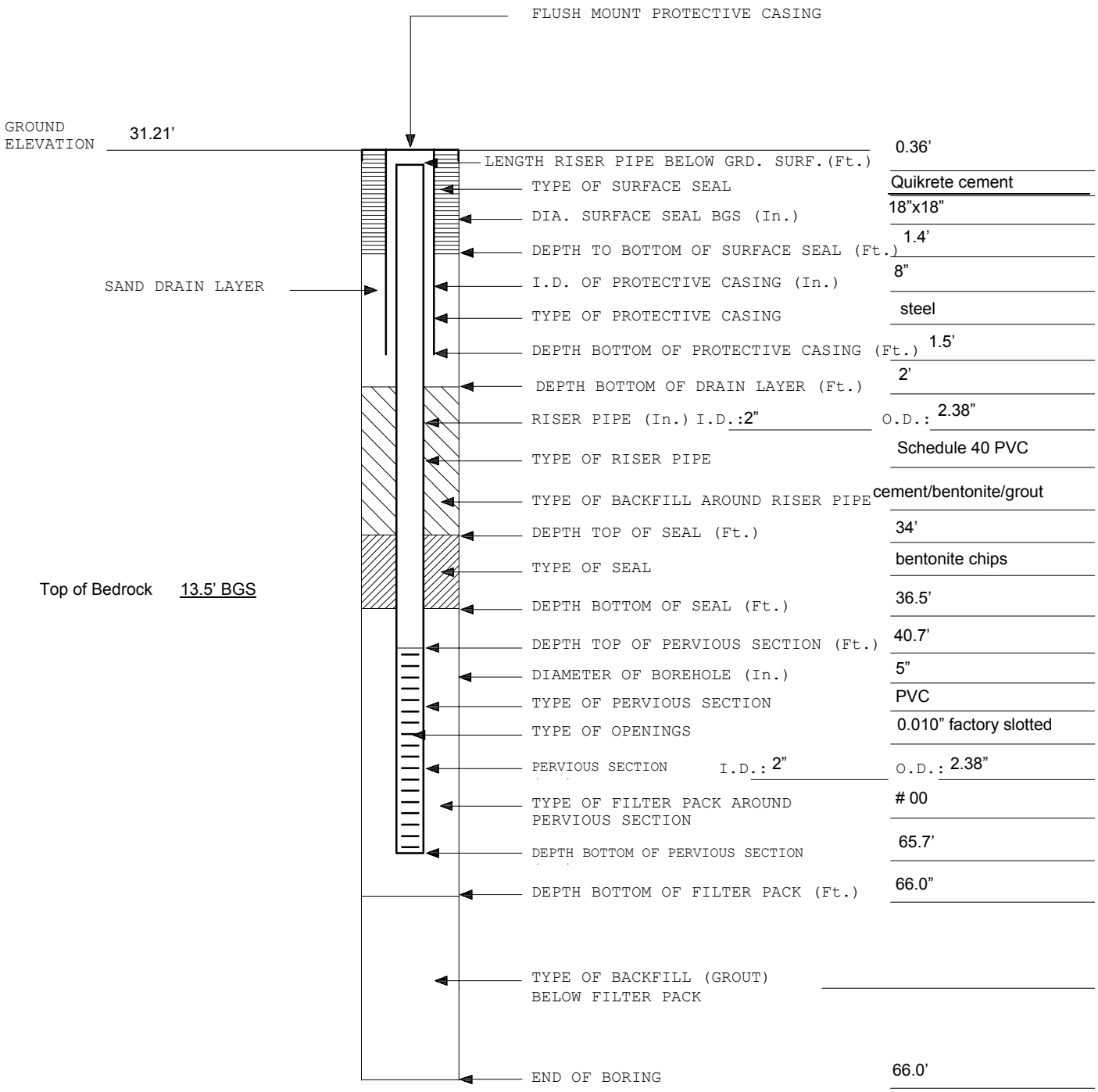
GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	216B
CLIENT:	US EPA , RAC I	BORING NO:	216B
CONTRACTOR:	Alliance	DRILLER:	Ben Grim
LOGGED BY:	Joe Mello	DATE:	09/24/97
CHECKED BY:		DATE:	
BORING LOCATION:	Upgradient - on DPW land		



G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

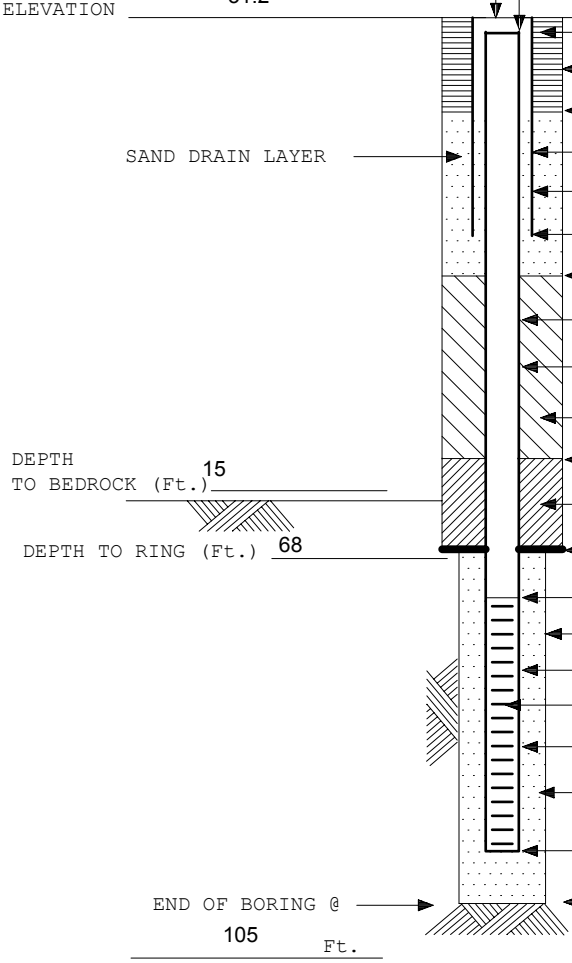
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-216DB
CLIENT: US EPA – Region 1
BORING NO: SB-216DB
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: DPW lawn ~ 8' north of MW-216B. 30-40' from bldg.
LOGGED BY: Tracy Dorgan
DATE: 02/15/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING: 31.17'

ELEVATION TOP OF RISER PIPE: 30.96'

GROUND ELEVATION: 31.2'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.24'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	18
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0
I.D. OF PROTECTIVE CASING (In.)	8
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.9'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.0'
RISER PIPE (In.) I.D.: 2	O.D.: 2.3
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	5.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	68.0
DEPTH TOP OF PERVIOUS SECTION (Ft.)	68.5
DIAMETER OF BOREHOLE (In.)	3.0
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020 in slotted
PERVIOUS SECTION (In.) I.D.: 2	O.D.: 2.3
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	98.5
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

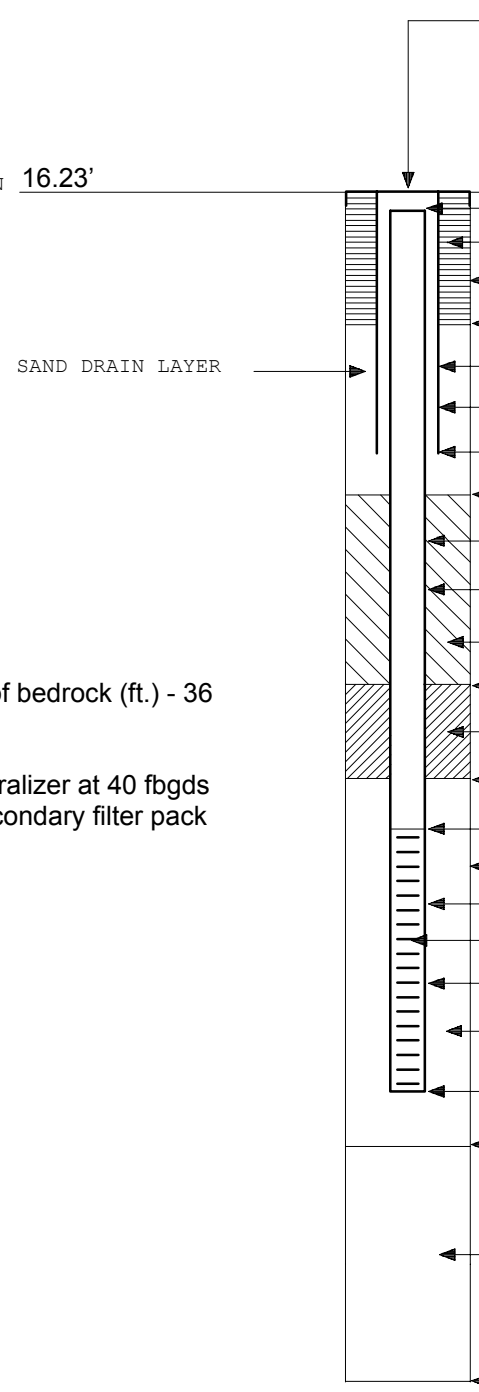
1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	217B
CLIENT:	US EPA, RAC I	BORING NO:	217 (A-2)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-24-97
CHECKED BY:		DATE:	

BORING LOCATION: Housatonic Ave. in front of 242 Housatonic Ave.

PAGE: 1 OF 1



GROUND ELEVATION 16.23'

LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.22'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18-24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	MW-217D
DEPTH TOP OF SEAL (Ft.)	36'
TYPE OF SEAL	med. bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	43'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	45'
DIAMETER OF BOREHOLE (In.)	5"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	70'
DEPTH BOTTOM OF FILTER PACK (Ft.)	71'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	none
END OF BORING	71'

Depth of bedrock (ft.) - 36

Note:
- 1 centralizer at 40 fbgds
- no secondary filter pack

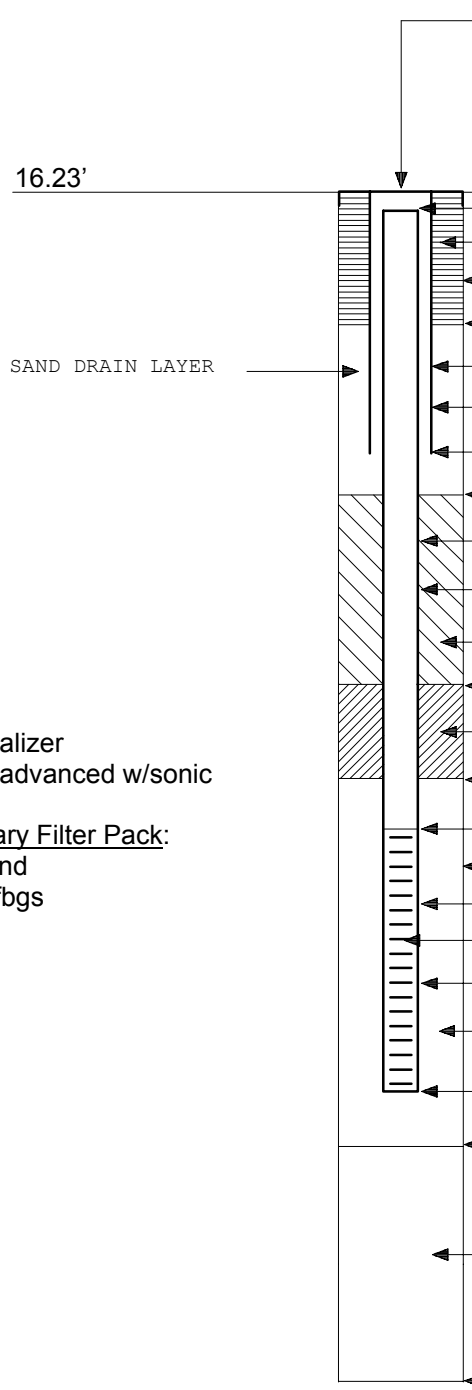
G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION **TETRA TECH NUS**

PROJECT NAME:	Ravmark OU2. Phase I Groundwater	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	217D
CLIENT:	US EPA, RAC I	BORING NO:	217 (A2)
CONTRACTOR:	Alliance	DRILLER:	Ron Ball
LOGGED BY:	Joe Mello	DATE:	10-24-97
CHECKED BY:		DATE:	
BORING LOCATION:	In front of 242 Housatonic Ave.		

PAGE: 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.26'
TYPE OF SURFACE SEAL	Quikrete cement
DIA. SURFACE SEAL BGS (In.)	18-24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.6'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03" O.D.:	2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	none
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	22'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	25'
DIAMETER OF BOREHOLE (In.)	9"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION I.D.: 2.03" O.D.:	2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 00 sand
DEPTH BOTTOM OF PERVIOUS SECTION	35'
DEPTH BOTTOM OF FILTER PACK (Ft.)	36'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	MW-217B and bentonite
END OF BORING	71'

Note
- 1 centralizer
- boring advanced w/sonic

Secondary Filter Pack:
- 000 sand
- 22-23 fbgs

G E N E R A L N O T E

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground NOT

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

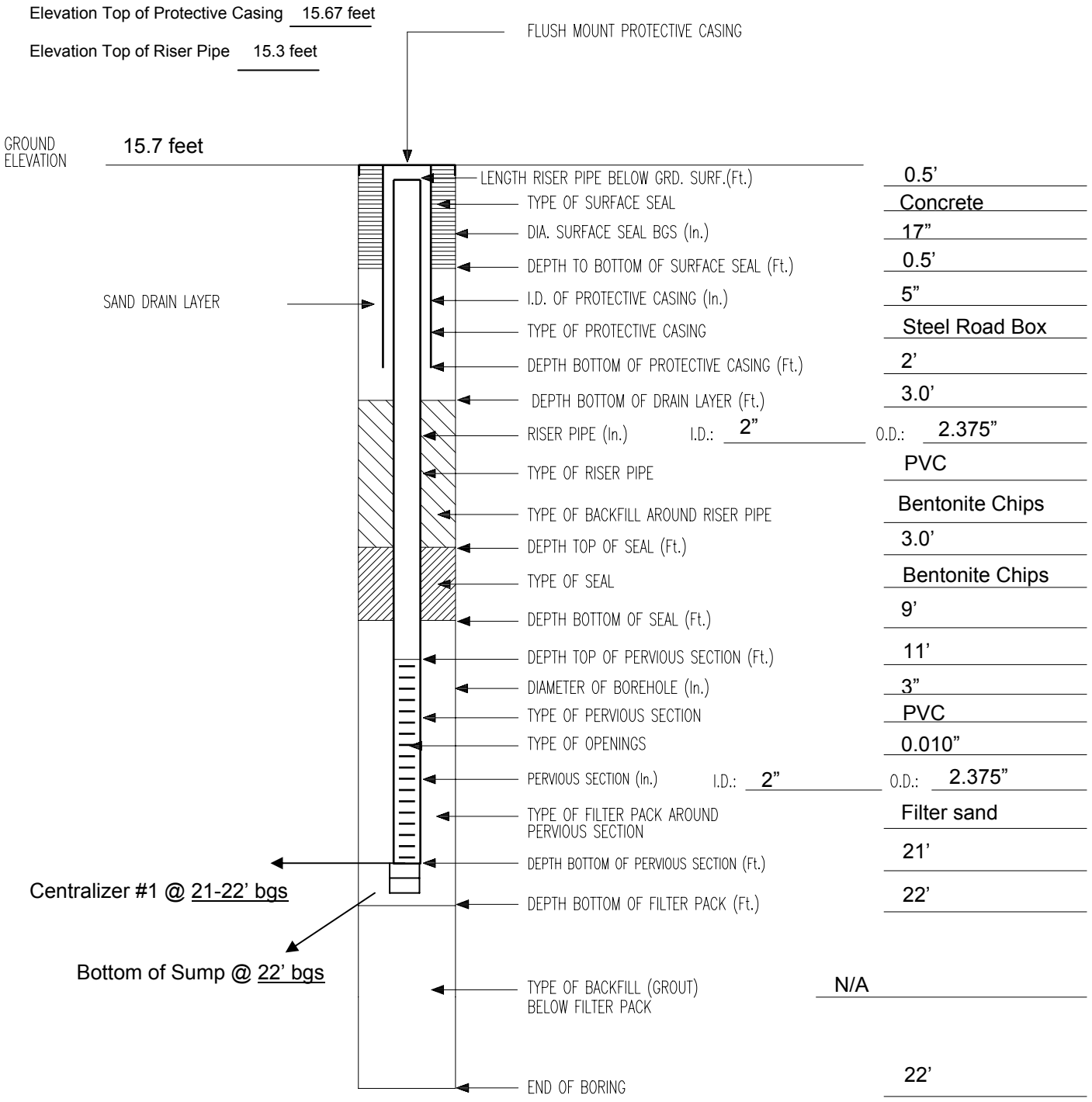
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-217S
CLIENT:	U.S EPA Region I	BORING NO:	SB-217S
CONTRACTOR:	ADT	BORING LOCATION:	In front of 232 Housatonic Ave. residence.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/23/02 @ 1650
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.67 feet

Elevation Top of Riser Pipe 15.3 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	9'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	11'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	21'
DEPTH BOTTOM OF FILTER PACK (Ft.)	22'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	22'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

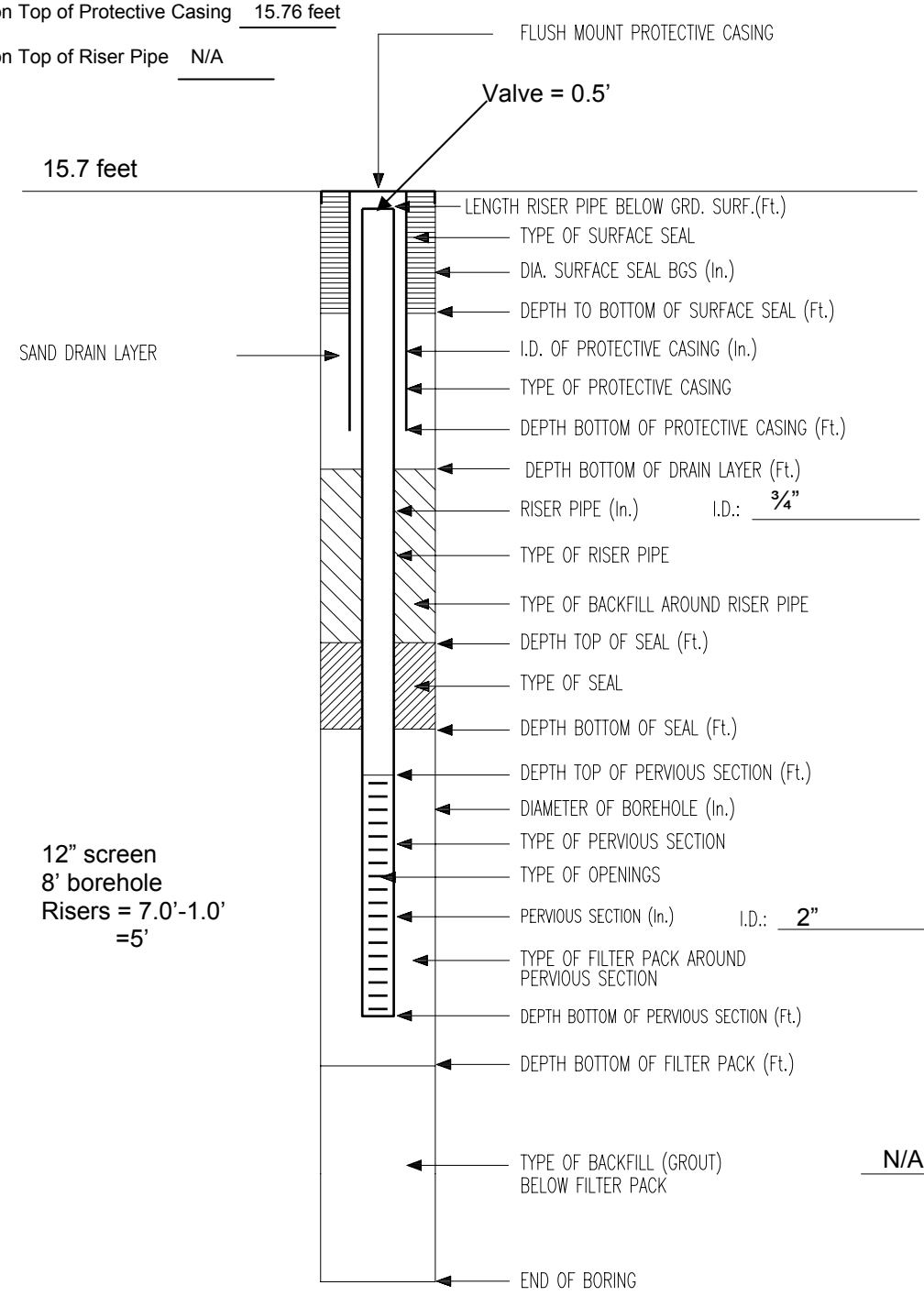
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-217SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-217SG
CONTRACTOR:	ADT	BORING LOCATION:	232 Housatonic Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/4/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.76 feet

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	1.0'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: ¾" O.D.:	1 1/8"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.:	2" O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

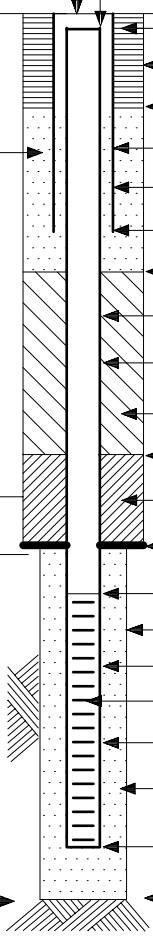
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-301B
CLIENT: US EPA – Region 1
BORING NO: SB-301B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: In road in front of 99 Riverview Drive
LOGGED BY: Tracy Dorgan
DATE: 11/21/98
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 13.45'

ELEVATION TOP OF RISER PIPE 13.08'

GROUND ELEVATION 13.5'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.22'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	8 in.
TYPE OF PROTECTIVE CASING	Steel Box Road
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	50.0
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	53.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	54.2'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020" Factory Slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	84.2'
DEPTH BOTTOM OF FILTER PACK (Ft.)	84.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-301D
CLIENT:	U.S. EPA Region I	BORING NO:	SB-301D
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/11/99
CHECKED BY:		DATE:	
BORING LOCATION:	Riverview Place		

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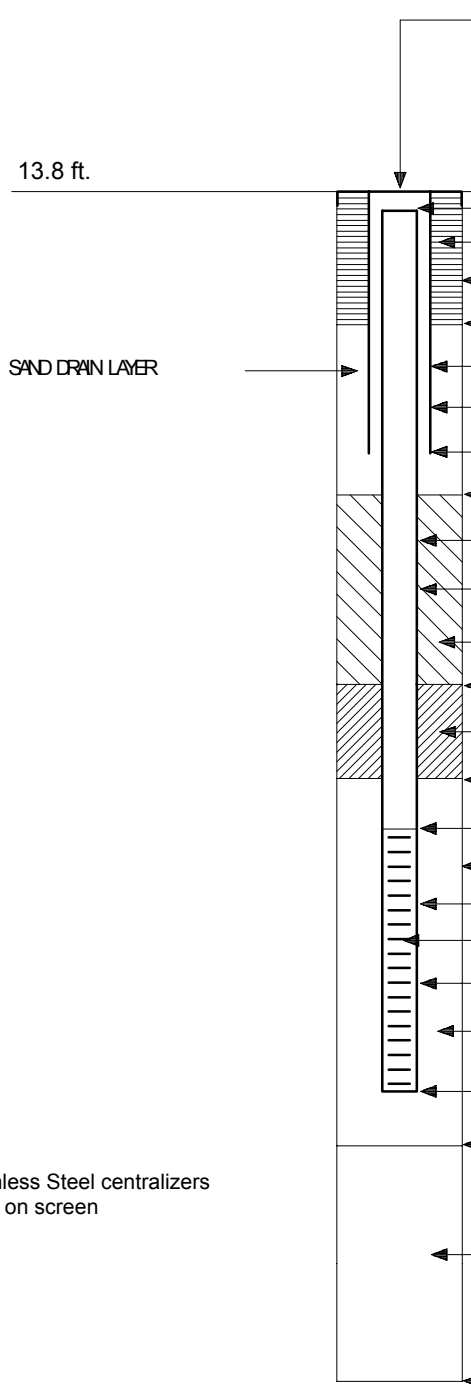

LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.3'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	1.0'
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	0.8' (8 ¼")
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	28'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	31'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	35.4'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010 in. factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	45.4'
DEPTH BOTTOM OF FILTER PACK (Ft.)	45.95
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	45.95

Note:
2 Stainless Steel centralizers placed on screen

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-301S
CLIENT:	U.S. EPA Region I	BORING NO:	SB-301
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	Ken Kutarnia
LOGGED BY:	Tracy Dorgan	DATE:	01/08/99
CHECKED BY:		DATE:	

BORING LOCATION: In road in front of 99 Riverview Terr. ~ 15' from MW-301B

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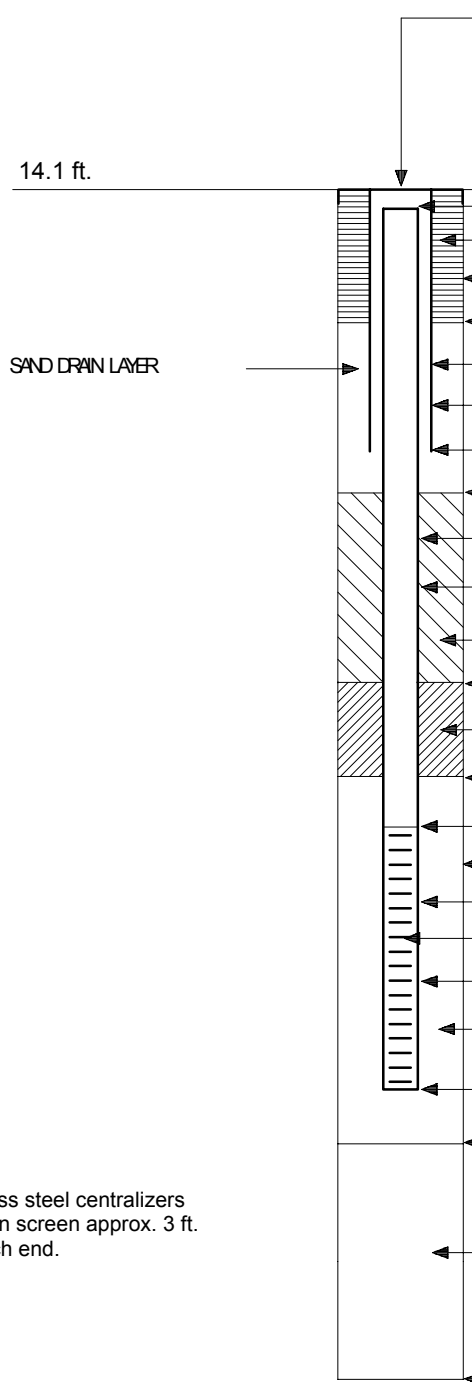


LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)		0.27'
TYPE OF SURFACE SEAL		Concrete
DIA. SURFACE SEAL BGS (In.)		12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		1.5'
I.D. OF PROTECTIVE CASING (In.)		8"
TYPE OF PROTECTIVE CASING		Steel Pipe Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		2.5'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE		Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE		N/A
DEPTH TOP OF SEAL (Ft.)		2.5'
TYPE OF SEAL		(Hydrated) Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)		3.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		5.0'
DIAMETER OF BOREHOLE (In.)		4"
TYPE OF PERVIOUS SECTION		Schedule 40 PVC
TYPE OF OPENINGS		0.010 in. Factory Slotted
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		#1 morie silica sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		20.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)		21.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		N/A
END OF BORING		21.0'

Note:
2 stainless steel centralizers placed on screen approx. 3 ft. from each end.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

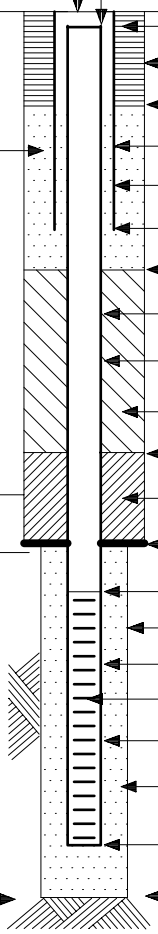
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-302B
CLIENT: US EPA – Region 1
BORING NO: SB-302B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Scott Bray
BORING LOCATION: Housatonic Ave. & Willow Ave.
LOGGED BY: John R. Trottier
DATE: 11/23/98
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 22.68'

ELEVATION TOP OF RISER PIPE 22.46'

GROUND ELEVATION 22.7'



SAND DRAIN LAYER

DEPTH TO BEDROCK (Ft.) 57.0'

DEPTH TO RING (Ft.) 59.5'

END OF BORING @ 92.4 Ft.

FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.25'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	14"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.25'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.0'
RISER PIPE (In.) I.D. 2"	O.D. 2.25"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	54.0'
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	59.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	59.5'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	91.9
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	302D
CLIENT:	U.S. EPA Region I	BORING NO:	302D
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/05/99
CHECKED BY:		DATE:	
BORING LOCATION:	Willow Ave. and Housatonic Ave.		

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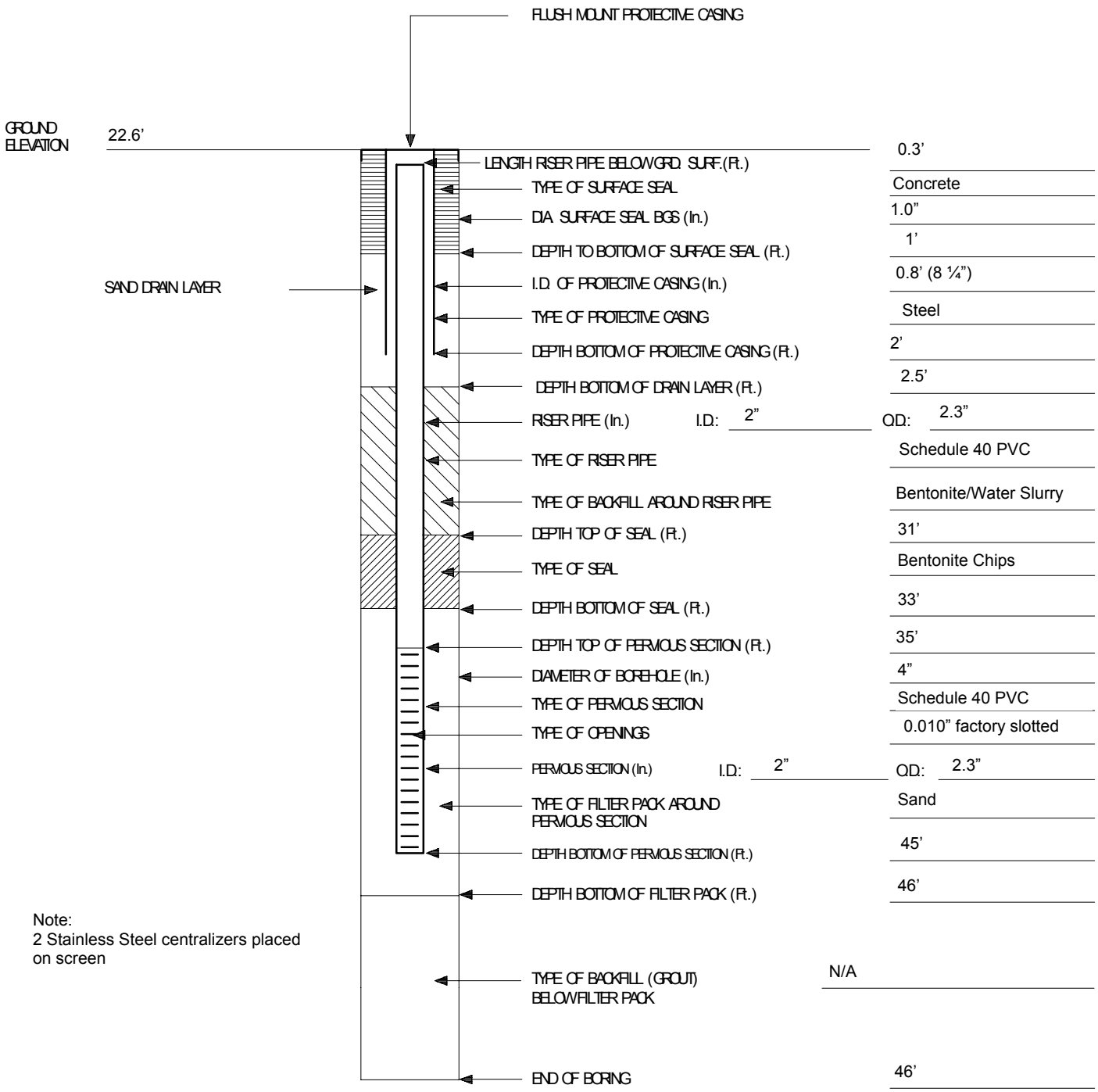

Note:
2 Stainless Steel centralizers placed on screen

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-302S
CLIENT:	U.S. EPA Region I	BORING NO:	SB-302S
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	Scott Bray
LOGGED BY:	John Trottier	DATE:	11/18/98
CHECKED BY:		DATE:	
BORING LOCATION:	Housatonic Ave. near Willow Ave.		

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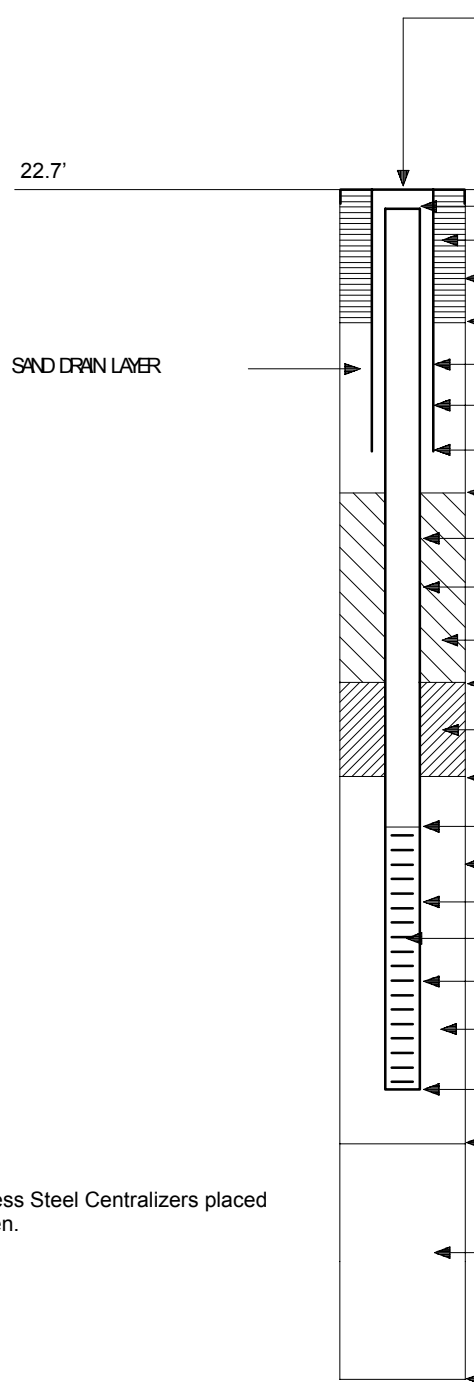


LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.25'		
TYPE OF SURFACE SEAL	Concrete		
DIA. SURFACE SEAL BGS (In.)	4"		
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.25'		
I.D. OF PROTECTIVE CASING (In.)	10"		
TYPE OF PROTECTIVE CASING	Flush Mount		
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'		
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'		
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.25"	
TYPE OF RISER PIPE	2" PVC		
TYPE OF BACKFILL AROUND RISER PIPE	Sand		
DEPTH TOP OF SEAL (Ft.)	6.5'		
TYPE OF SEAL	Bentonite Pellets		
DEPTH BOTTOM OF SEAL (Ft.)	8.5'		
DEPTH TOP OF PERVIOUS SECTION (Ft.)	15'		
DIAMETER OF BOREHOLE (In.)	4"		
TYPE OF PERVIOUS SECTION	2 Screen PVC		
TYPE OF OPENINGS	0.010 in.factory slotted		
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.25"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand		
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	25"		
DEPTH BOTTOM OF FILTER PACK (Ft.)	25.33'		
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A		
END OF BORING	25.33'		

Note:
2 Stainless Steel Centralizers placed on screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

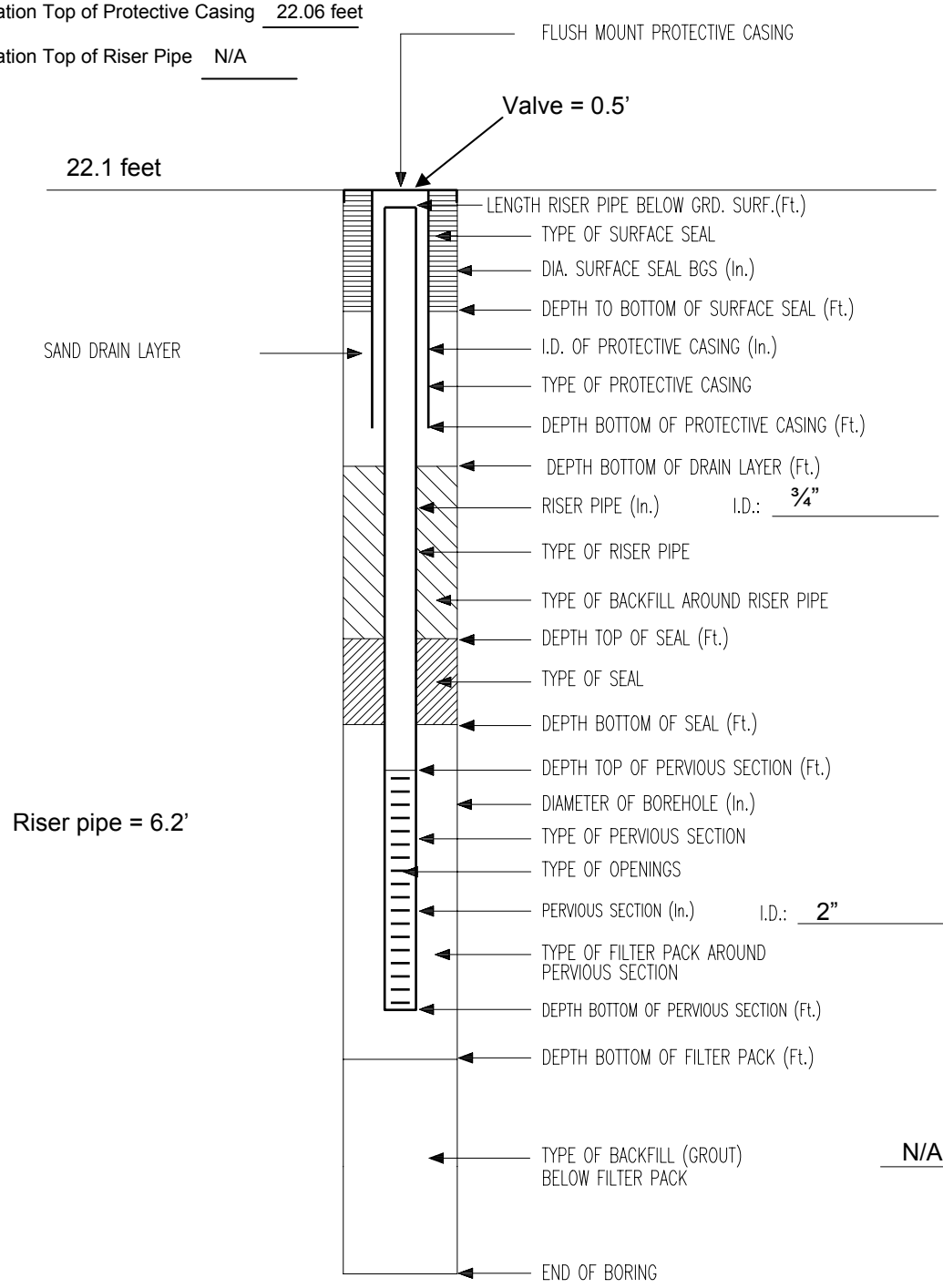
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-302SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-302SG
CONTRACTOR:	ADT	BORING LOCATION:	Across the street from 337 Housatonic Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/5/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 22.06 feet

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.8'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.3'
RISER PIPE (In.) I.D.: ¾" O.D.:	1 1/8"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

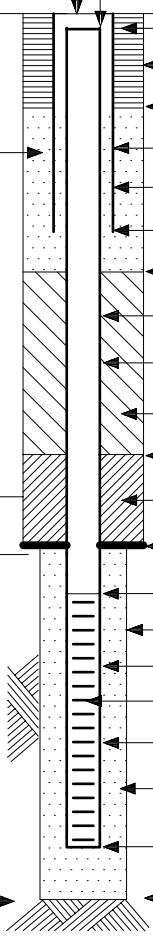
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-303B
CLIENT: US EPA – Region 1
BORING NO: SB-303B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: M. Harrington
BORING LOCATION: In front Parking Lot @ 730 Barnum Ave.
LOGGED BY: Tracy Dorgan
DATE: 01/20/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 30.30'

ELEVATION TOP OF RISER PIPE 30.03'

GROUND ELEVATION 30.30



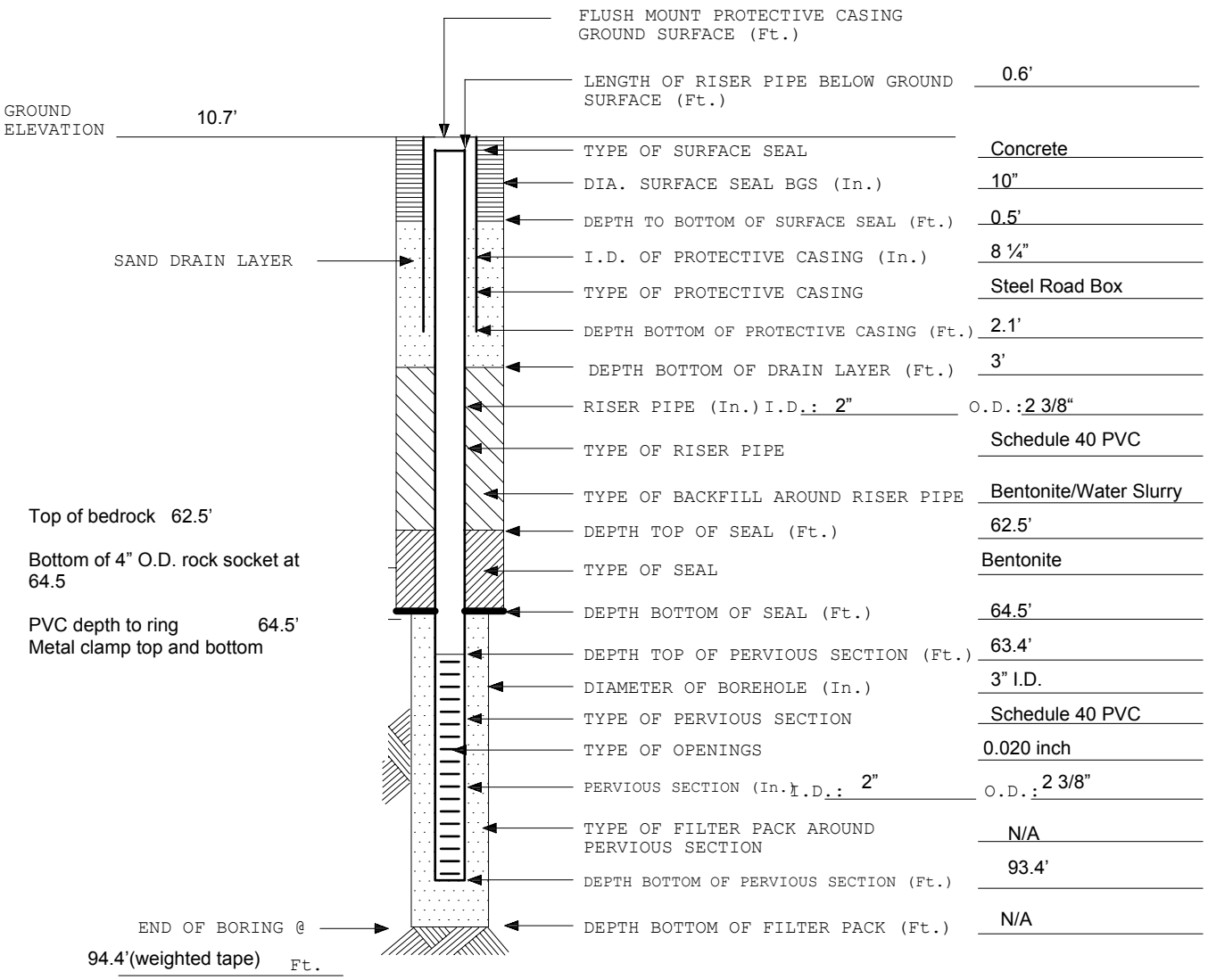
FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.27'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8 in.
TYPE OF PROTECTIVE CASING	Steel Pipe Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0 ft.
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.5 ft.
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.5'
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	10 ft.
DEPTH TOP OF PERVIOUS SECTION (Ft.)	12.5 ft.
DIAMETER OF BOREHOLE (In.)	3 in.
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020 in. factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	52.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	No filter pack, open hole

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark		PROJECT NO:	
PROJECT LOCATION: Stratford, CT		WELL NO: MW-304B	
CLIENT: US EPA – Region 1		BORING NO: SB-304B	
CONTRACTOR: Aquifer Drilling & Testing	DRILLER: S.Bray & T. Archenbach	BORING LOCATION: Behind Marshalls adjacent to I-95	
LOGGED BY: E. Thibodeau	DATE: 12/04/98		
CHECKED BY:	DATE:	PAGE: 1 OF 1	



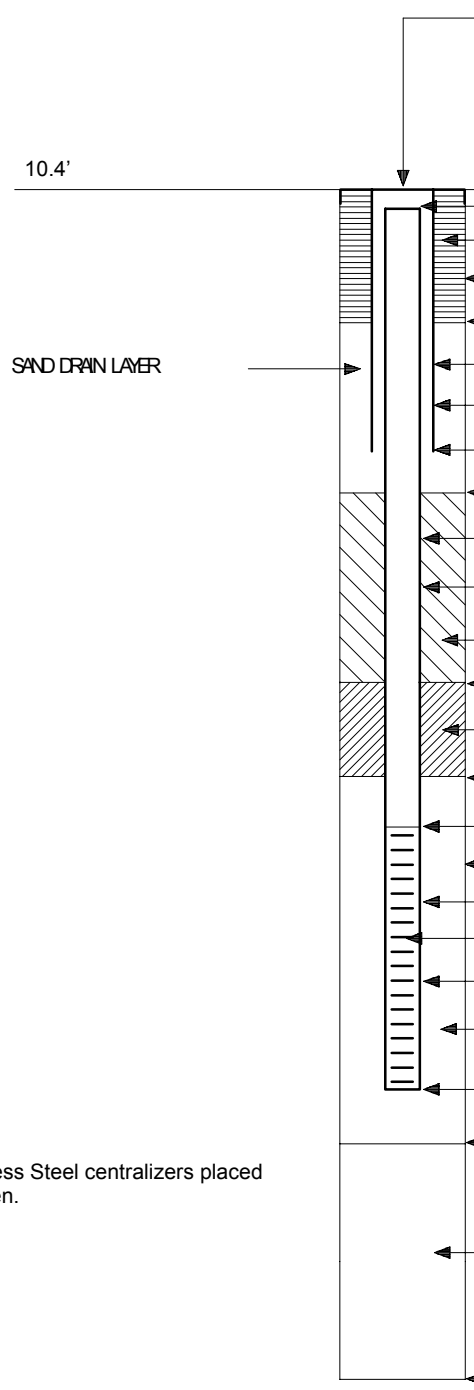
Note:
Taped depth of well = 93.4"

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-304D
CLIENT:	U.S. EPA Region I	BORING NO:	SB-304D
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/13/99
CHECKED BY:		DATE:	
BORING LOCATION:	Corner of Ferry Boulevard and Longbrook		
PAGE:	1 OF 1		



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.3"
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	10"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	45'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	47'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	49.5'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	59.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	59.9'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	59.9'

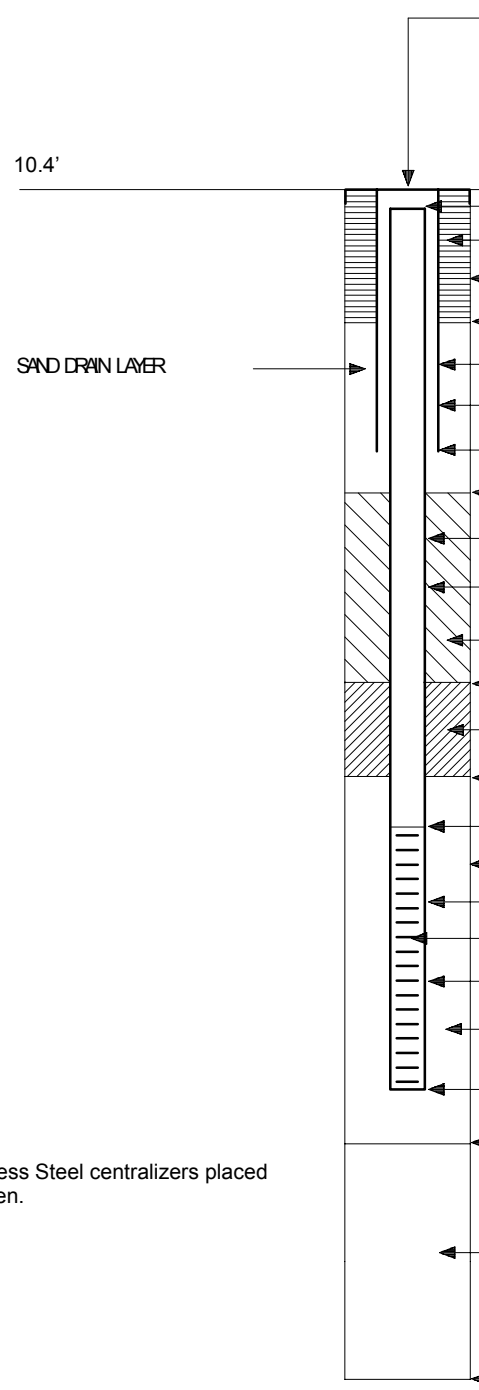
Note:
2 Stainless Steel centralizers placed on screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-304S
CLIENT:	U.S. EPA Region I	BORING NO:	SB-304S
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/13/99
CHECKED BY:		DATE:	
BORING LOCATION:	Corner of Ferry Boulevard and Longbrook		
PAGE:	1 OF 1		



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.25'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	1"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.2'
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	3.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	4.3'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	19.3'
DEPTH BOTTOM OF FILTER PACK (Ft.)	20.2'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	20.2'

Note:
2 Stainless Steel centralizers placed on screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

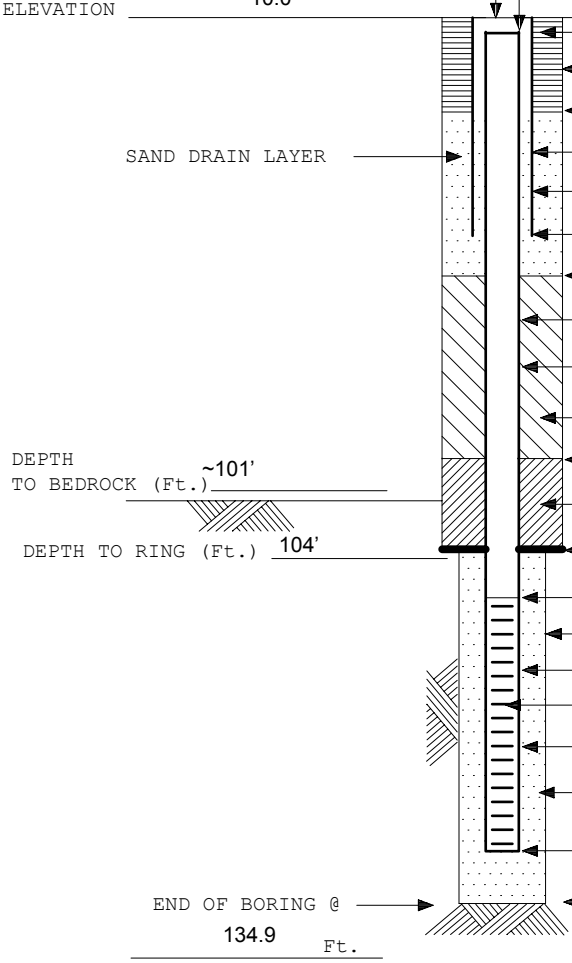
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-305B
CLIENT: US EPA – Region 1
BORING NO: SB-305B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: Beneath Billboard @ Stratford Shopping Center
LOGGED BY: Tracy Dorgan
DATE: 12/11/98
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 10.07'

ELEVATION TOP OF RISER PIPE 9.86'

GROUND ELEVATION 10.0'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.14'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel road - box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	Approx. 98'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	103.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	104'
DIAMETER OF BOREHOLE (In.)	3 in.
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020 in. factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	134'
DEPTH BOTTOM OF FILTER PACK (Ft.)	Open hole to EOB

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

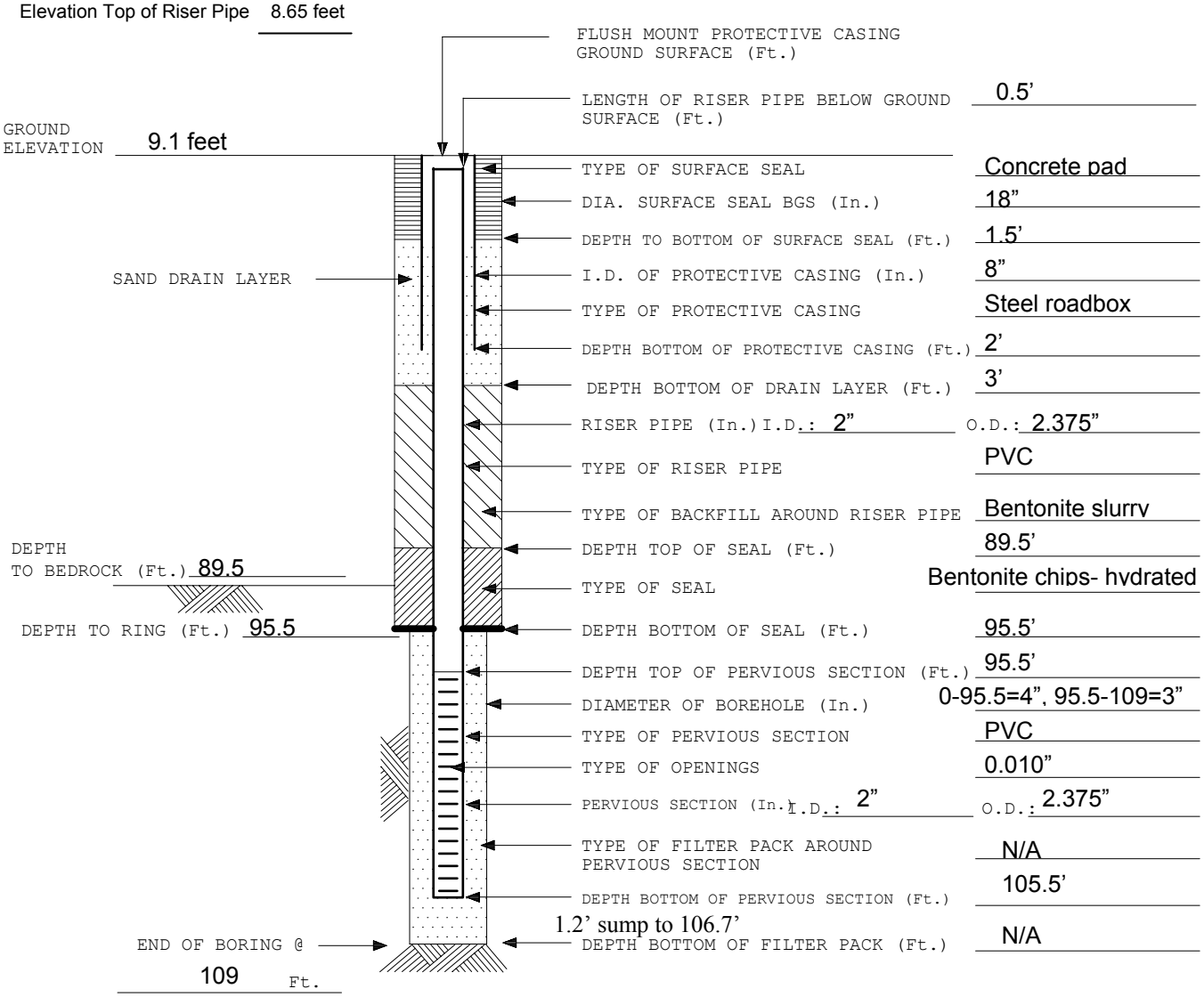
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-305BR
CLIENT:	U.S EPA Region I	BORING NO:	SB-305BR
CONTRACTOR:	ADT.	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	12/18/02 – 12/19/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

BORING LOCATION: Under billboard between Bally's and movie theater parking lot.

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.27 feet

Elevation Top of Riser Pipe 8.65 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite slurry
DEPTH TOP OF SEAL (Ft.)	89.5'
TYPE OF SEAL	Bentonite chips- hydrated
DEPTH BOTTOM OF SEAL (Ft.)	95.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	95.5'
DIAMETER OF BOREHOLE (In.)	0-95.5=4", 95.5-109=3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	105.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

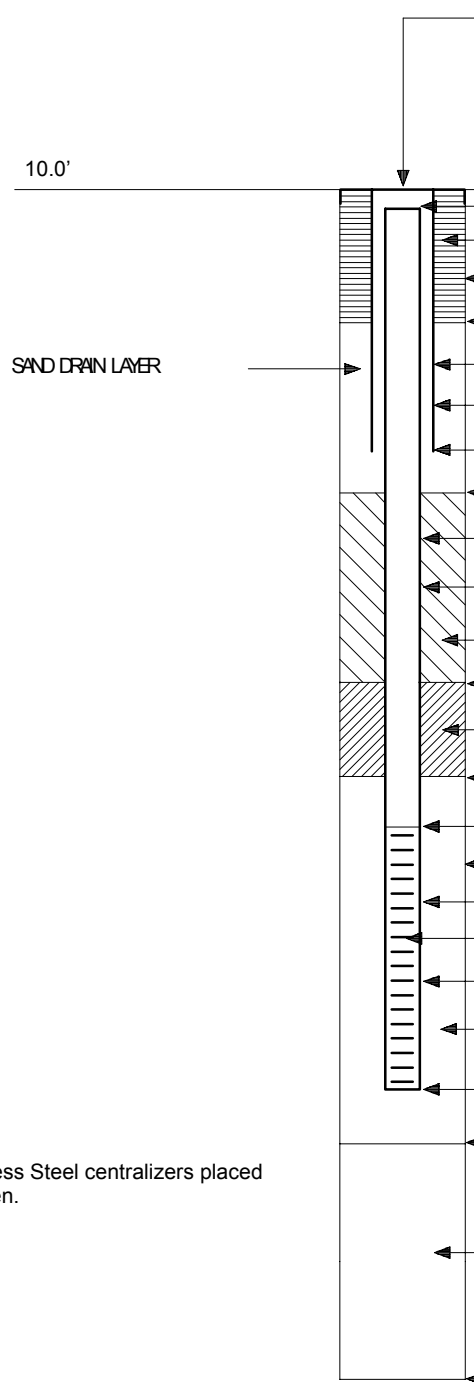
TtNUS form 0060

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO.	
PROJECT LOCATION:	Stratford, CT	WELL NO.	MW-305D
CLIENT:	U.S. EPA Region I	BORING NO.	SB-305D
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/19/99
CHECKED BY:		DATE:	

BORING LOCATION: West side of 95, between Ponderosa Rest. & cinema

PAGE 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.3'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	10"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	43'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	45'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	48.5'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	58.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	59.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	59.0'

Note:
2 Stainless Steel centralizers placed on screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-305DR
CLIENT:	U.S EPA Region I	BORING NO:	SB-305DR
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	1/7/03
CHECKED BY:	T. Dorgan	DATE:	9/11/03

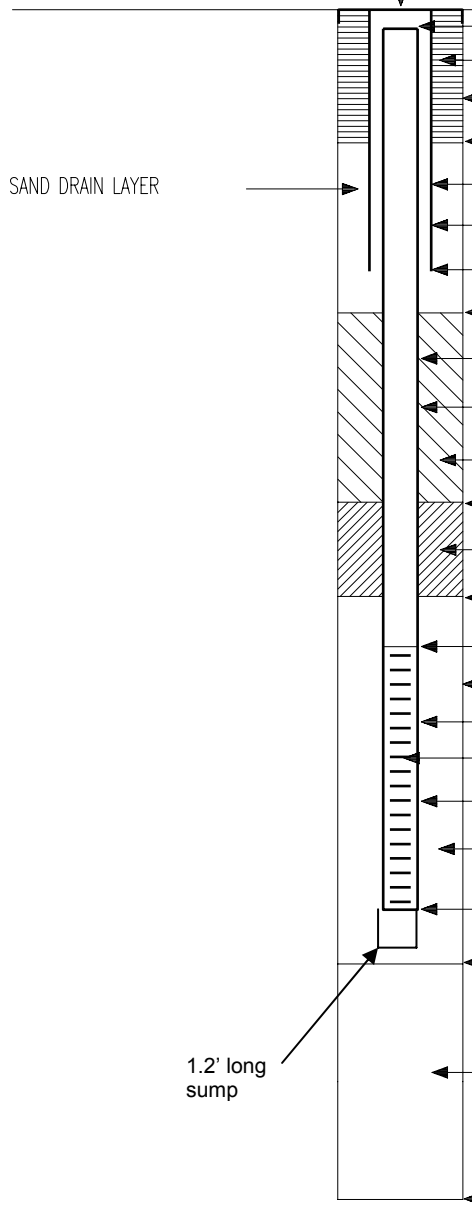
BORING LOCATION: Under billboard between Theater & Bally's parking lots

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.29 Ft.

Elevation Top of Riser Pipe 8.65 Ft.

GROUND ELEVATION 9.1 Ft.



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	16"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	45.0'
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	47'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	48.8'
DIAMETER OF BOREHOLE (In.)	0–10=4" 0-12=5"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Medium sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	58.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	60'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	60'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

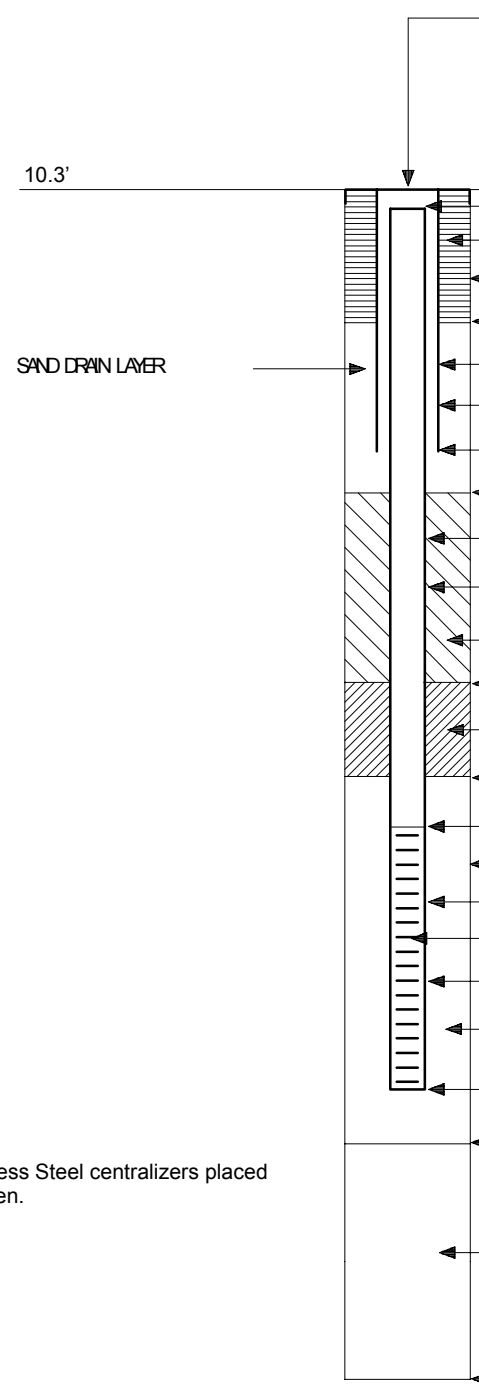
TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-305S
CLIENT:	U.S. EPA Region I	BORING NO:	SB-305S
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/19/99
CHECKED BY:		DATE:	

BORING LOCATION: West side of I-95 between Ponderosa Rest. & Cinema

PAGE 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	2.0'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	10"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Flush mount, aluminum collar
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	1.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	1.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	3'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	3.5'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Industrial Grade Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	18.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	19'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	19'

Note:
2 Stainless Steel centralizers placed on screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-305SR
CLIENT:	U.S EPA Region I	BORING NO:	SB-305SR
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	1/7/03
CHECKED BY:	D. Hartigan	DATE:	9/17/03

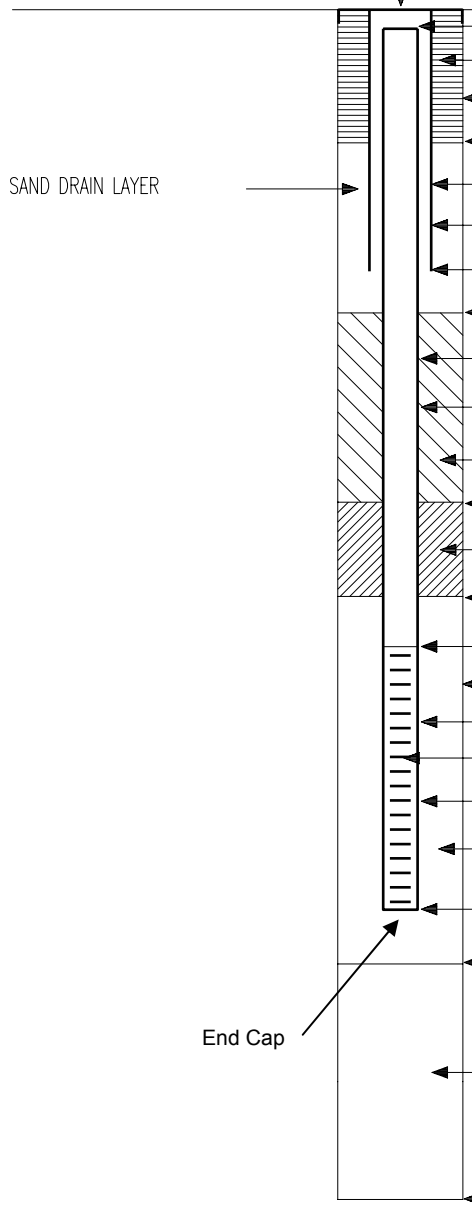
BORING LOCATION: Under billboard between Theater & Bally's parking lot

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.45 Ft.

Elevation Top of Riser Pipe 8.94 Ft.

GROUND ELEVATION 9.3 Ft.



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	16"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.1'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.1'
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	3'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	3.5'
DIAMETER OF BOREHOLE (In.)	4.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Medium sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	12'
DEPTH BOTTOM OF FILTER PACK (Ft.)	12'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	12'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

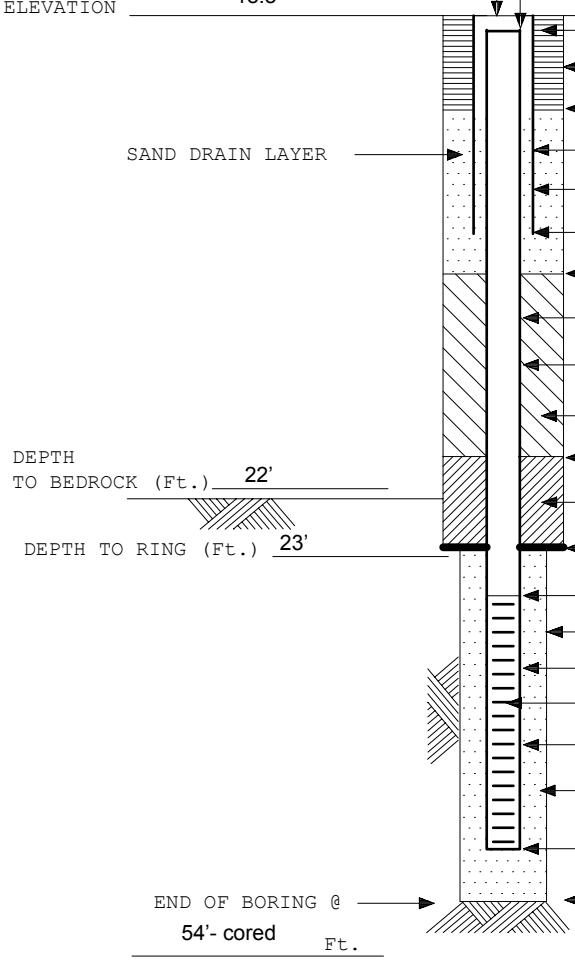
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-306B
CLIENT: US EPA – Region 1
BORING NO: SB-306B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: Approx. 5' from PZ-12, located betw. Boiler Room, Anodizing Bldg., Gas Pump Bldg. & Sludge Beds @ Contract Platings
LOGGED BY: Tracy Dorgan
DATE: 01/07/99
CHECKED BY:
DATE:
PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 18.79'

ELEVATION TOP OF RISER PIPE 18.20'

GROUND ELEVATION 18.8'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.6'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	6-8 in.
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.2'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	17.8'
TYPE OF SEAL	Bentonite Chip
DEPTH BOTTOM OF SEAL (Ft.)	23'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	23'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020 in. slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	53'
DEPTH BOTTOM OF FILTER PACK (Ft.)	No filter pack

Note: 53.6' - (0.4 stub of core left in hole)

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

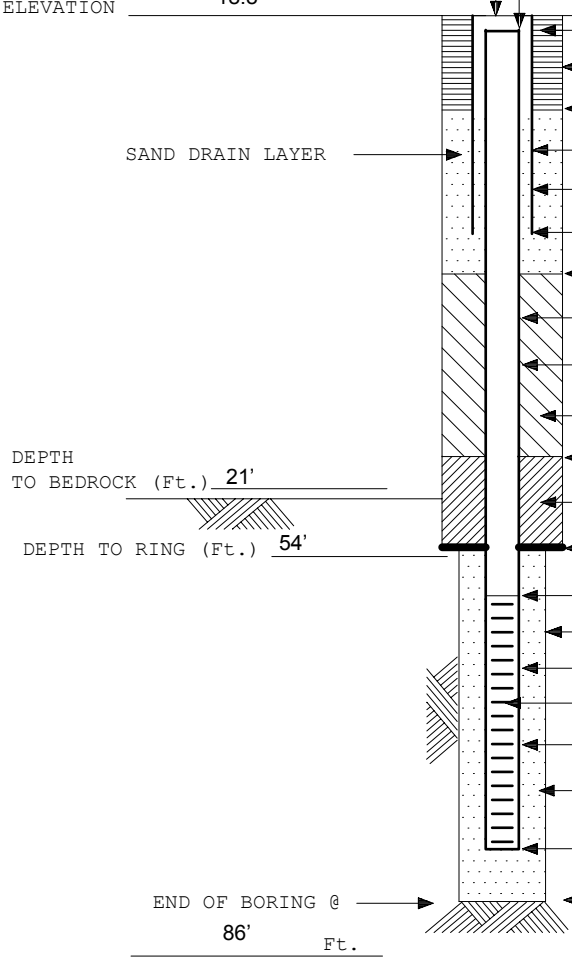
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-306DB
CLIENT: US EPA – Region 1
BORING NO: SB-306DB
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: Approx. 10' south of MW-306B
LOGGED BY: Tracy Dorgan
DATE: 01/13/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 18.78'

ELEVATION TOP OF RISER PIPE 18.37'

GROUND ELEVATION 18.8'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.43'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.4'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.95'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	20.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	54'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	54'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020" Factory Slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	84'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

Slough from 5" bore hole filled in from 86-85'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

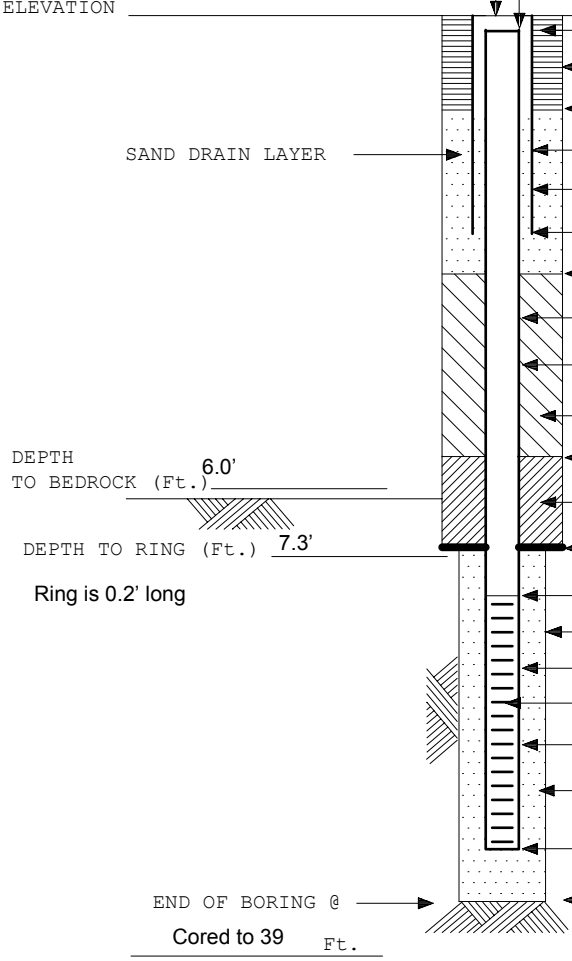
PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-307B
CLIENT: US EPA – Region 1
BORING NO: SB-307B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: Cottage Place approx. 5 ft. From 307DB
LOGGED BY: Tracy Dorgan
DATE: 02/02/99
CHECKED BY:
DATE:

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 34.83'

ELEVATION TOP OF RISER PIPE 34.59'

GROUND ELEVATION 34.8'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.21'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Pipe
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.0'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	4.0'
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	7.5' (bottom of ring)
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.5'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	37.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

Note : Meas. Open hole to 38.9' – 0.1' stub of core @ EOB

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

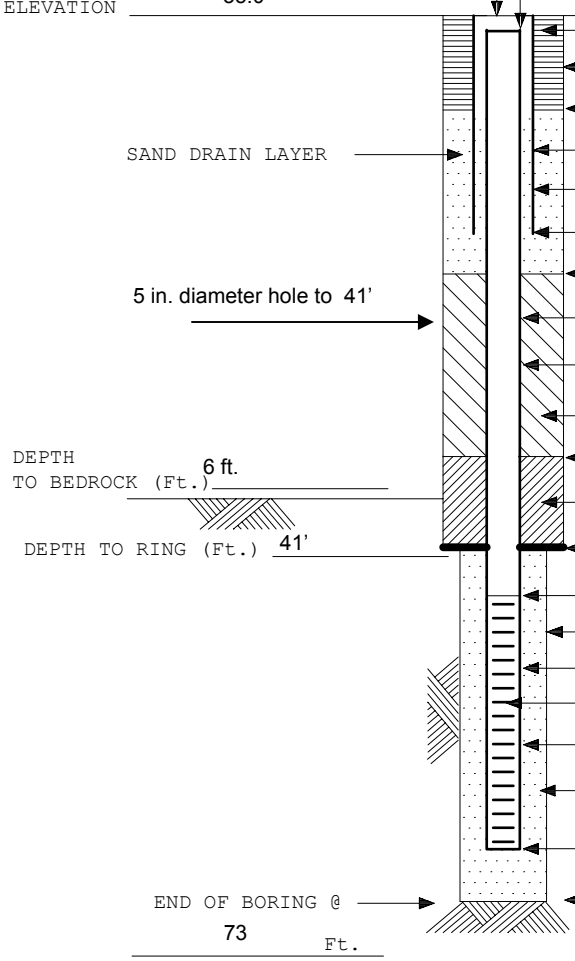
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-307DB
CLIENT: US EPA – Region 1
BORING NO: SB-307DB
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: On Cottage Place approx. 5 Ft. from MW-307B
LOGGED BY: Tracy Dorgan
DATE: 02/04/99
CHECKED BY:
DATE:
PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 34.98'

ELEVATION TOP OF RISER PIPE 34.55'

GROUND ELEVATION 35.0'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.47'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.2'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Pipe Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.9'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	4'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	41'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	41'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020 in. factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	71'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

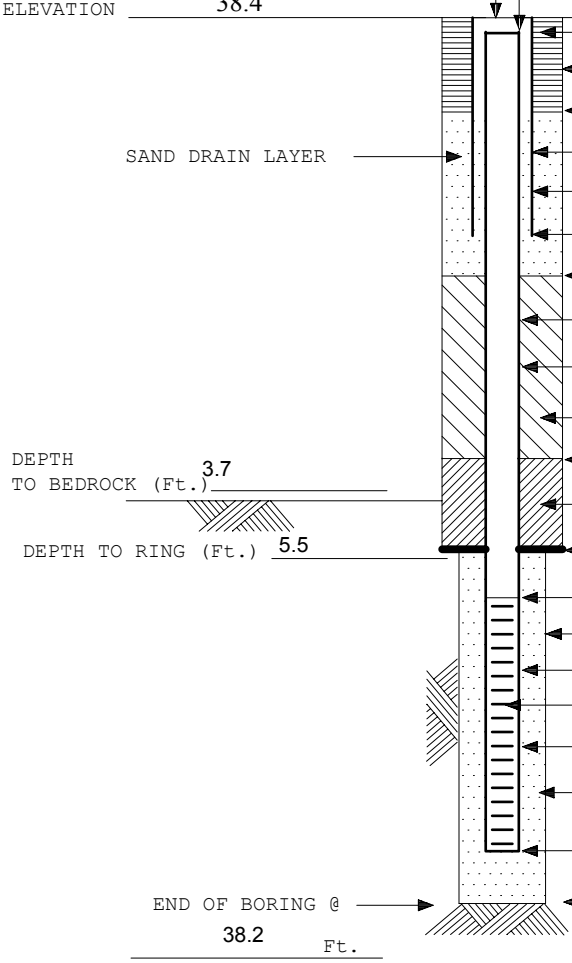
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: 308B
CLIENT: US EPA – Region 1
BORING NO: 308B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: S.Bray
BORING LOCATION:
LOGGED BY: D.Whalen
DATE: 02/04/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 38.41'

ELEVATION TOP OF RISER PIPE 37.77'

GROUND ELEVATION 38.4'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.63'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.4
I.D. OF PROTECTIVE CASING (In.)	8
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.8
RISER PIPE (In.) I.D.: 2	O.D.: 2.25
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.5
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	5.3
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.5
DIAMETER OF BOREHOLE (In.)	3
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.02"
PERVIOUS SECTION (In.) I.D.: 2	O.D.: 2.25
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	35.5
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

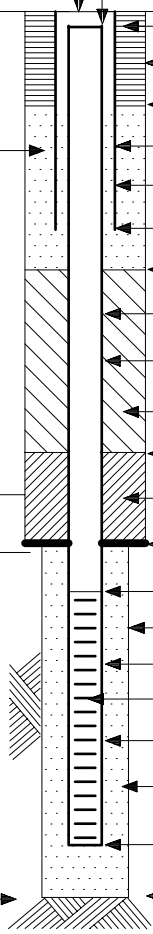
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: 308DB
CLIENT: US EPA – Region 1
BORING NO: 308DB
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: S.Bray
BORING LOCATION:
LOGGED BY: D.Whalen
DATE: 02/10/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 38.24'

ELEVATION TOP OF RISER PIPE 38.03'

GROUND ELEVATION 38.2'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.17'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.4
I.D. OF PROTECTIVE CASING (In.)	8
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.9'
RISER PIPE (In.) I.D. 2	O.D. 2.3
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	2.9'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	39.8
DEPTH TOP OF PERVIOUS SECTION (Ft.)	40
DIAMETER OF BOREHOLE (In.)	3
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.02"
PERVIOUS SECTION (In.) I.D. 2	O.D. 2.25
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	70
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

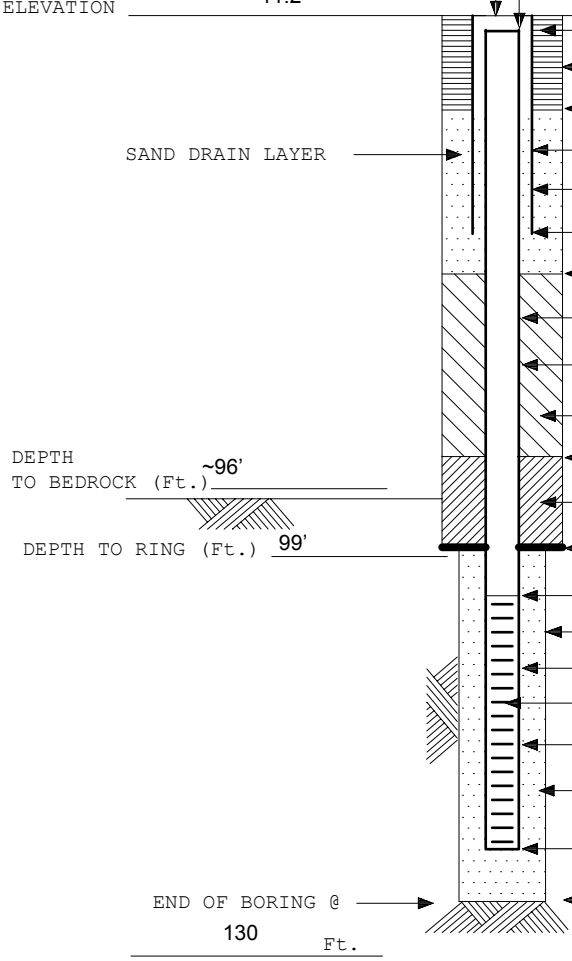
PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW 309B
CLIENT: US EPA – Region 1
BORING NO: SB 309B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: ~ 15' NE of E.Main St. in Front of Dresser Ind. & Frog Pond Bar
LOGGED BY: Tracy Dorgan
DATE: 02/22/99
CHECKED BY:
DATE:

PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING: 11.19'

ELEVATION TOP OF RISER PIPE: 10.89'

GROUND ELEVATION: 11.2'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.31'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	1.0 ft.
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3
I.D. OF PROTECTIVE CASING (In.)	8
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0
RISER PIPE (In.) I.D.: 2	O.D.: 2.3
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Quick Gel, Bent./Water Slurry
DEPTH TOP OF SEAL (Ft.)	94.7'
TYPE OF SEAL	Bentonite Chip
DEPTH BOTTOM OF SEAL (Ft.)	99.1'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	99.1'
DIAMETER OF BOREHOLE (In.)	3 in.
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020" Factory Slotted
PERVIOUS SECTION (In.) I.D.: 2	O.D.: 2.3
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	129.1
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

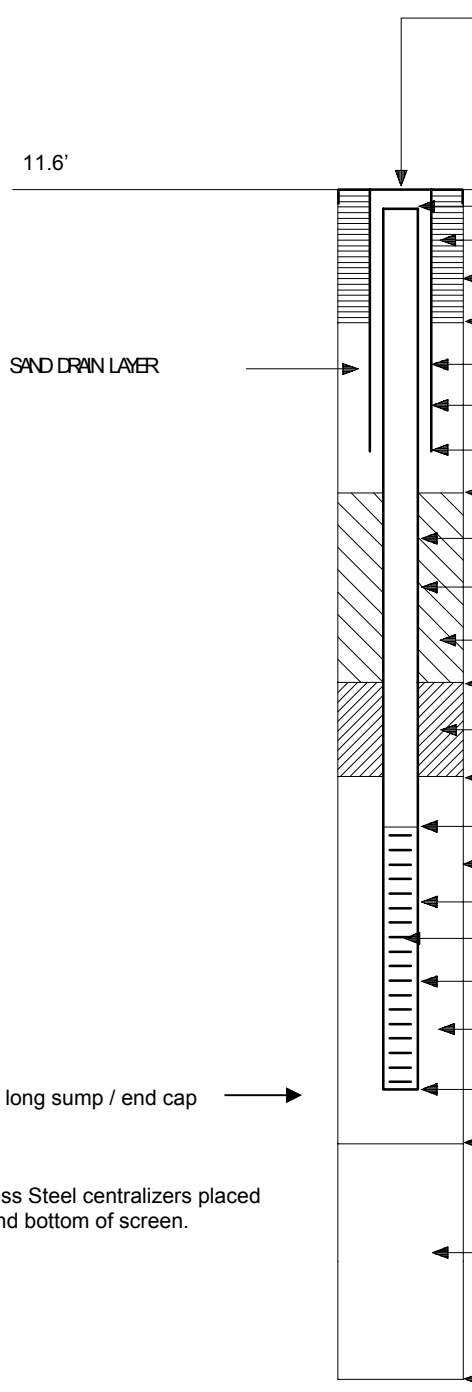
1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-309D
CLIENT:	U.S. EPA Region I	BORING NO:	SB-309D
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	M.Harrington
LOGGED BY:	Tracy Dorgan	DATE:	02/25/99
CHECKED BY:		DATE:	

BORING LOCATION: ~10' off E. Main St. in front of Dresser Ind. & Frog Pond Bar

PAGE 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.22'
TYPE OF SURFACE SEAL	Concrete/Cement
DIA. SURFACE SEAL BGS (In.)	1.5 ft.
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0
I.D. OF PROTECTIVE CASING (In.)	8 in
TYPE OF PROTECTIVE CASING	Steel Road - Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.9'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite & Water Slurry
DEPTH TOP OF SEAL (Ft.)	79.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	81.0 ft.
DEPTH TOP OF PERVIOUS SECTION (Ft.)	84.0 ft.
DIAMETER OF BOREHOLE (In.)	4 in.
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010 in. slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 1 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	94.0 ft.
DEPTH BOTTOM OF FILTER PACK (Ft.)	94.2 ft.
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	94.2'

Note:
2 Stainless Steel centralizers placed on top and bottom of screen.

GENERAL NOTE:

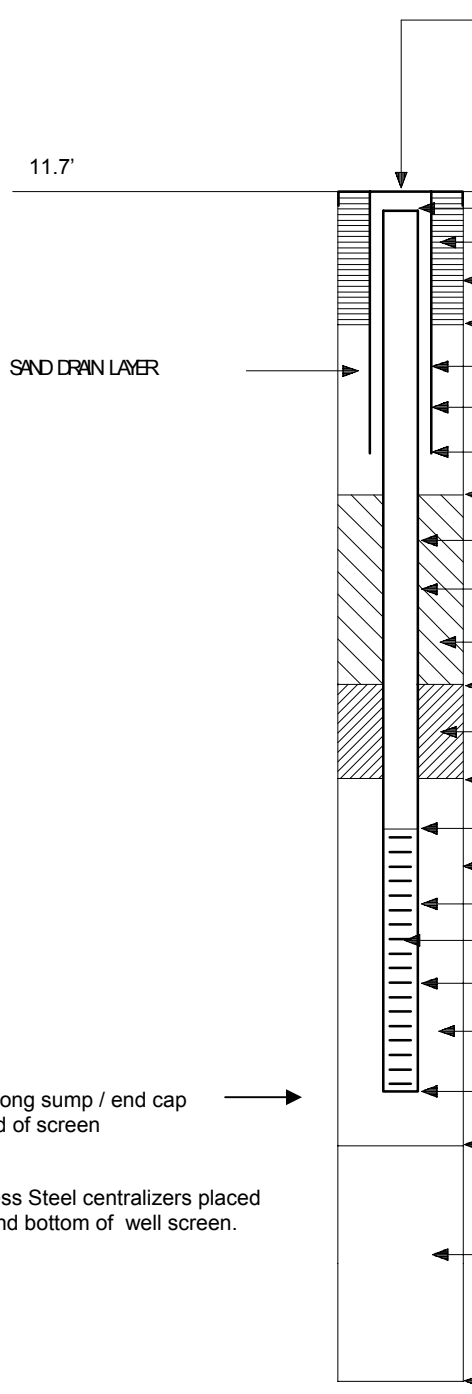
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-309S
CLIENT:	U.S. EPA Region I	BORING NO:	SB-309S
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	M.Harrington
LOGGED BY:	Tracy Dorgan	DATE:	02/26/99
CHECKED BY:		DATE:	

BORING LOCATION: Approx. 6-8' from 309D 10' From E. Main St. in front of Dresser Ind.

PAGE 1 OF 1



GROUND ELEVATION	11.7'
LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.52'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18 in.
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8 in.
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2" O.D.: 2.3"	
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	3.8'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.0'
DIAMETER OF BOREHOLE (In.)	4 in.
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010 in. slotted
PERVIOUS SECTION (In.) I.D.: 2" O.D.: 2.3	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 1 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	20.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	20.3'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	20.3'

Note:
2 Stainless Steel centralizers placed on top and bottom of well screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

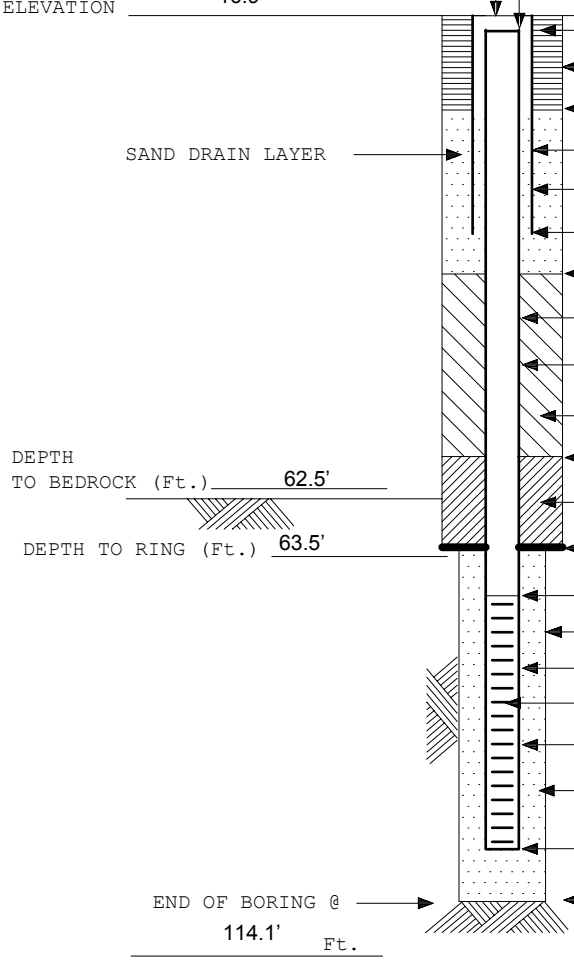
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: 310B
CLIENT: US EPA – Region 1
BORING NO: 310
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Scott Bray
BORING LOCATION: On grass strip in front of 687 East Broadway
LOGGED BY: Joe Mello
DATE: 12/11/98
CHECKED BY:
DATE:
PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 16.86'

ELEVATION TOP OF RISER PIPE 16.24'

GROUND ELEVATION 16.9'



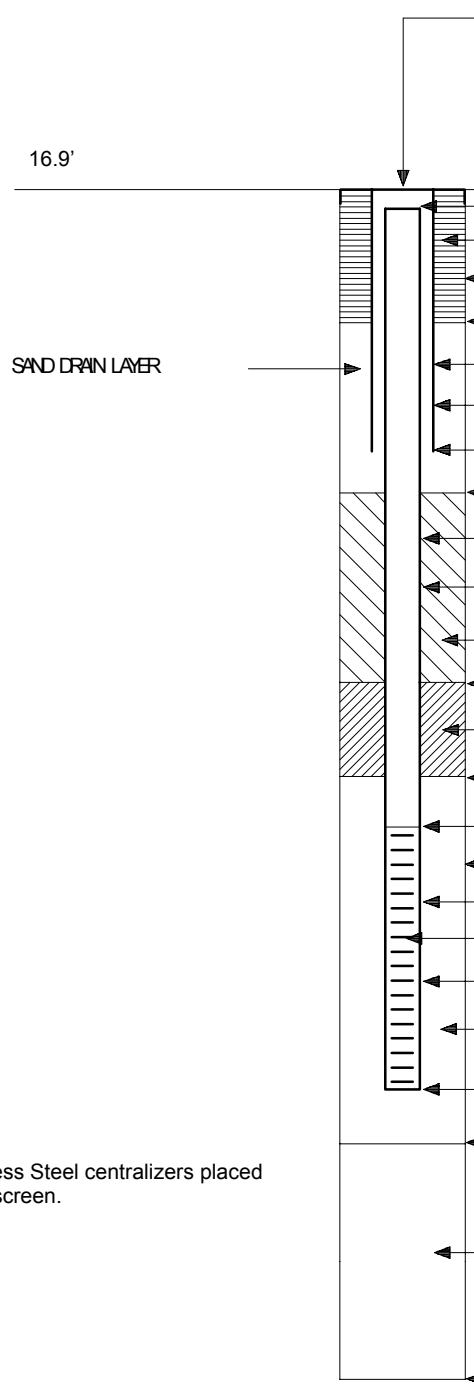
FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.66'
TYPE OF SURFACE SEAL	Redi-Mix cement
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel 0.25"
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	PVC – Schedule 40
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	61.5'
TYPE OF SEAL	Bentonite
DEPTH BOTTOM OF SEAL (Ft.)	63.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	64.0'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020 inch factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Open, no filter pack
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	113.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	114.1'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-310D
CLIENT:	U.S. EPA Region I	BORING NO:	SB-310D
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/20/99
CHECKED BY:		DATE:	
BORING LOCATION:	East Broadway		
PAGE:	1 OF 1		



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	10"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	43'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	46'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	48'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	58'
DEPTH BOTTOM OF FILTER PACK (Ft.)	59'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	59'

Note:
2 Stainless Steel centralizers placed on well screen.

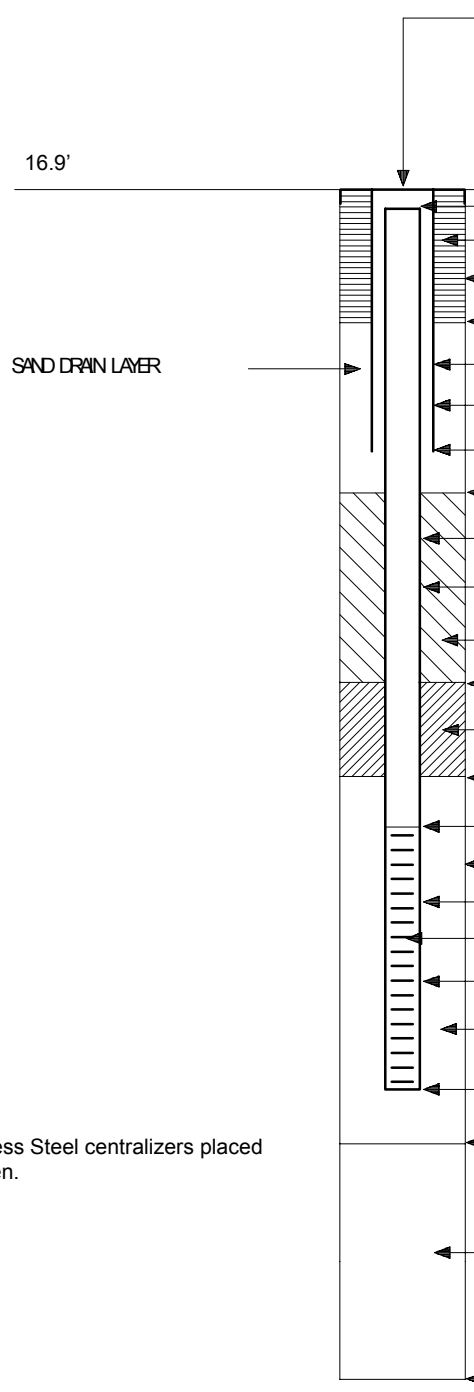
GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-310S
CLIENT:	U.S. EPA Region I	BORING NO:	SB-310S
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/21/99
CHECKED BY:		DATE:	
BORING LOCATION:	East Broadway		

PAGE 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	10"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	7'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	9.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	11.8'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	26.8"
DEPTH BOTTOM OF FILTER PACK (Ft.)	28.1'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	28.1'

Note:
2 Stainless Steel centralizers placed on screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

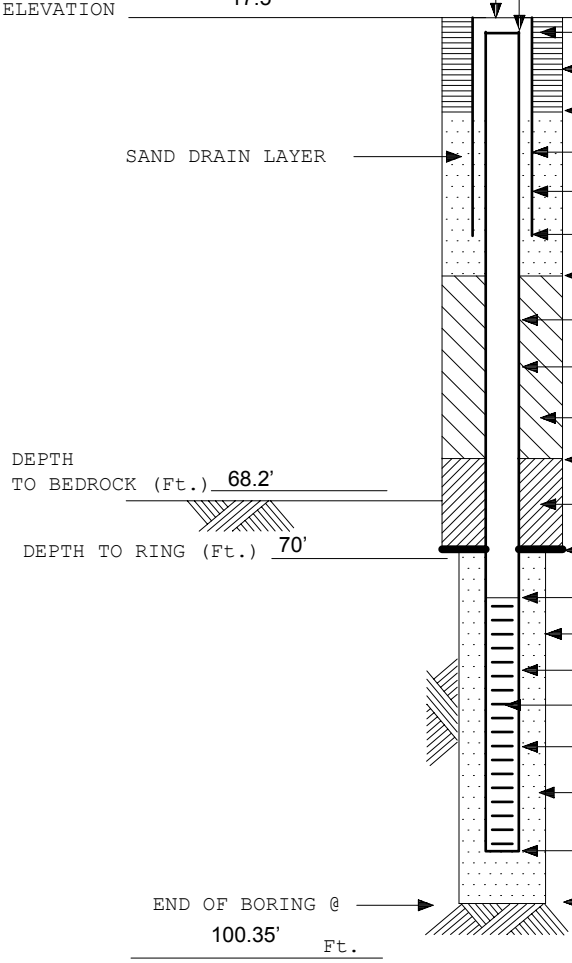
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-311B
CLIENT: US EPA – Region 1
BORING NO: SB-311B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Scott Bray
BORING LOCATION: Corner of Elm St. and Judson Pl.
LOGGED BY: D.Whalen
DATE: 02/01/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 17.52'

ELEVATION TOP OF RISER PIPE 17.37'

GROUND ELEVATION 17.5'



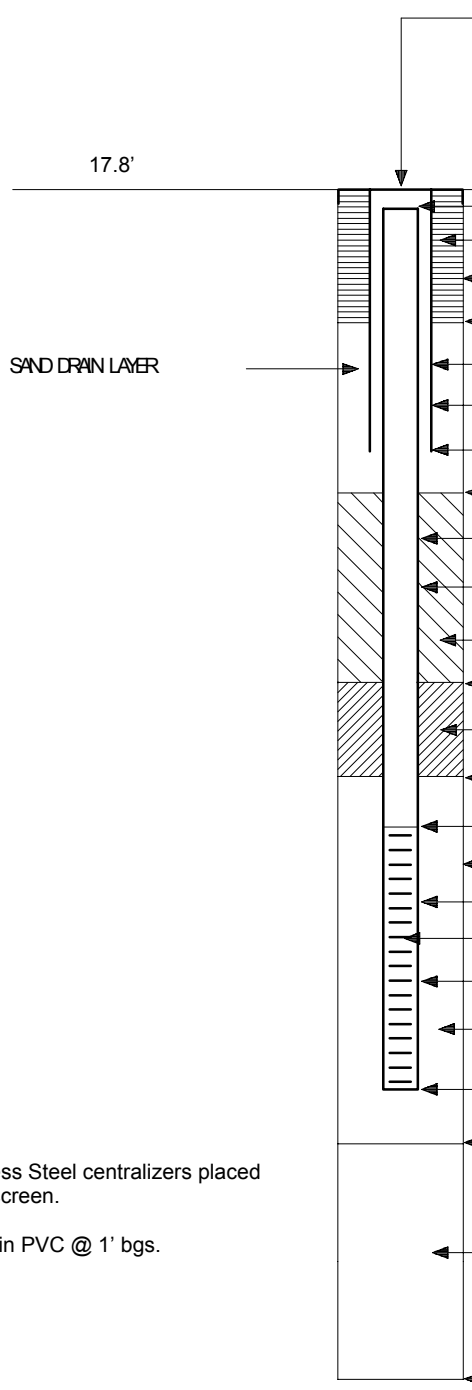
FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.13'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	1.7'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	67'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	69.8'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	70'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.02"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	100'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-311D
CLIENT:	U.S. EPA Region I	BORING NO:	311D
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/29/99
CHECKED BY:		DATE:	
BORING LOCATION:	Elm St. and Judson Place		
PAGE:	1 OF 1		



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.32'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	1'
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1"
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite/Water Slurry
DEPTH TOP OF SEAL (Ft.)	46.2'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	48.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	53.5'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	63.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	64.7'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	64.7'

Note:
2 Stainless Steel centralizers placed on well screen.

Coupler in PVC @ 1' bgs.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	311S
CLIENT:	U.S. EPA Region I	BORING NO:	311S
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam & K.O'Neil	DATE:	01/28/99
CHECKED BY:		DATE:	

BORING LOCATION: Corner of Elm St. and Judson Place

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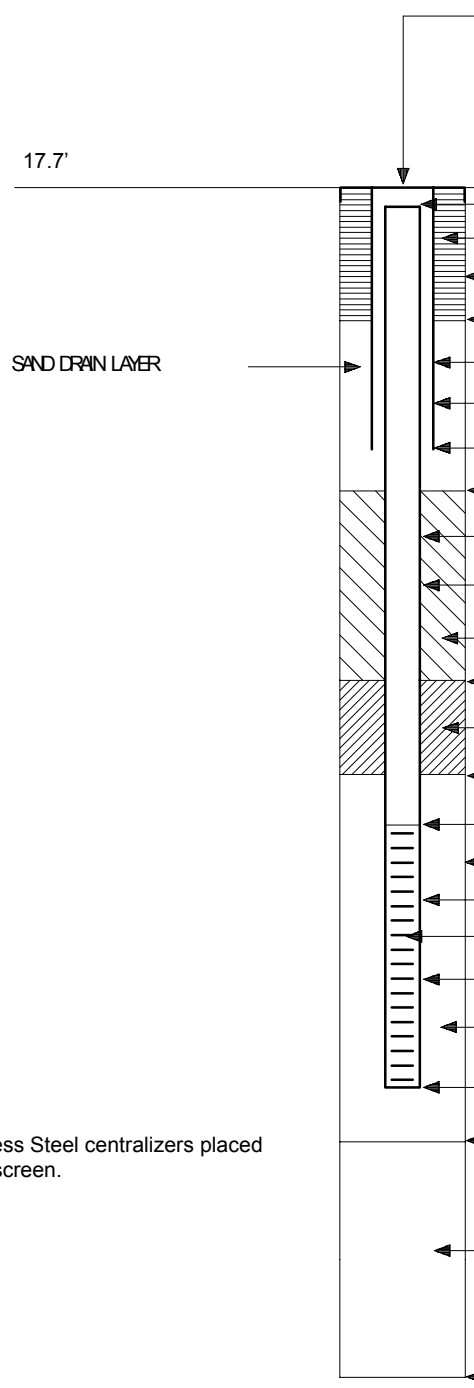


LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	0.21'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	1"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Sand
DEPTH TOP OF SEAL (Ft.)	2.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	6.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	8'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	23'
DEPTH BOTTOM OF FILTER PACK (Ft.)	24'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	24'

Note:
2 Stainless Steel centralizers placed on well screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

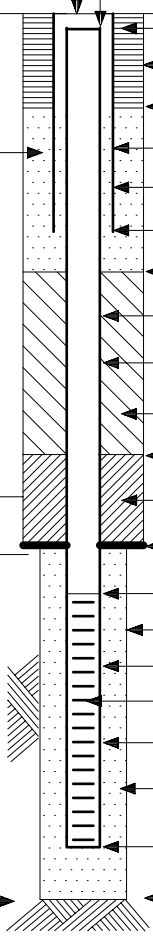
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-312B
CLIENT: US EPA – Region 1
BORING NO: SB-312B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: Edge of Del-Buno Wetland along Lockwood Ave.behind 90 Ferry Blvd.
LOGGED BY: Tracy Dorgan
DATE: 01/28/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 7.32'

ELEVATION TOP OF RISER PIPE 7.05'

GROUND ELEVATION 7.3'



DEPTH TO BEDROCK (Ft.) 90.5'

DEPTH TO RING (Ft.) 93.0'

Ring is 0.2' long

END OF BORING @ Cored to 124' Ft.

Note : Core stub remnant left in boring open hole to 123.4'

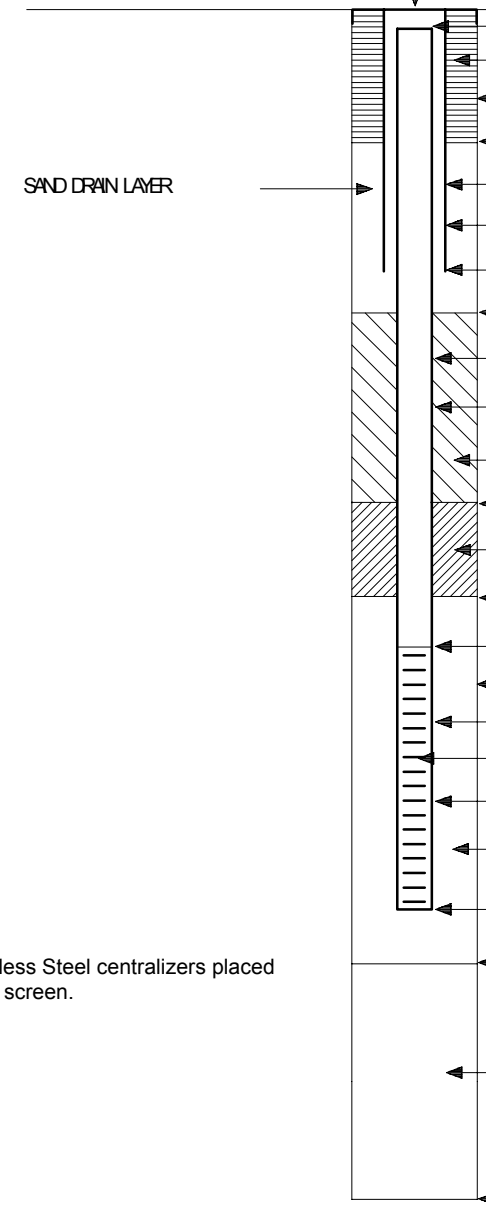
FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.25'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"-14"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Pipe Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.1'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Quick Gel, Bent.&Water Slurry
DEPTH TOP OF SEAL (Ft.)	89.4'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	92.8'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	93'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020 in. Factory Slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	123'
DEPTH BOTTOM OF FILTER PACK (Ft.)	None

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	312D
CLIENT:	U.S. EPA Region I	BORING NO:	312D
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	02/02/99
CHECKED BY:		DATE:	
BORING LOCATION:	Longbrook Ave.		
PAGE:	1 OF 1		



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)		0.35'
TYPE OF SURFACE SEAL		Concrete
DIA. SURFACE SEAL BGS (In.)		1"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		1'
I.D. OF PROTECTIVE CASING (In.)		8 ¼"
TYPE OF PROTECTIVE CASING		Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		3.5'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE		Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE		Bentonite & Water Slurry
DEPTH TOP OF SEAL (Ft.)		72.5'
TYPE OF SEAL		Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)		75.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		79'
DIAMETER OF BOREHOLE (In.)		4"
TYPE OF PERVIOUS SECTION		Schedule 40 PVC
TYPE OF OPENINGS		0.010" factory slotted
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		89'
DEPTH BOTTOM OF FILTER PACK (Ft.)		90.1'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		N/A
END OF BORING		90.1'

Note:
2 Stainless Steel centralizers placed on well screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	312S
CLIENT:	U.S. EPA Region I	BORING NO:	312S
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	02/03/99
CHECKED BY:		DATE:	
BORING LOCATION:	Longbrook Ave.		

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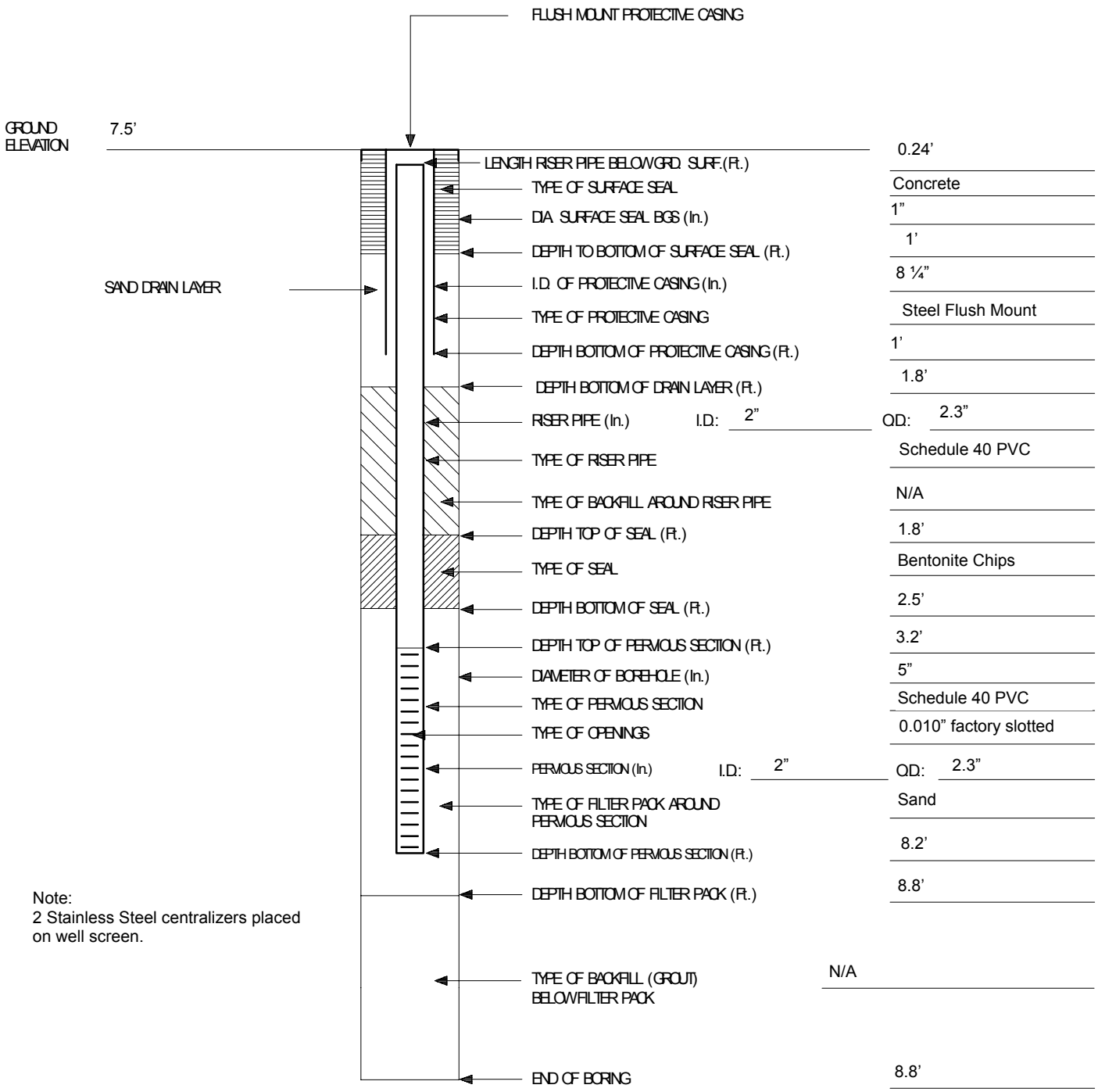


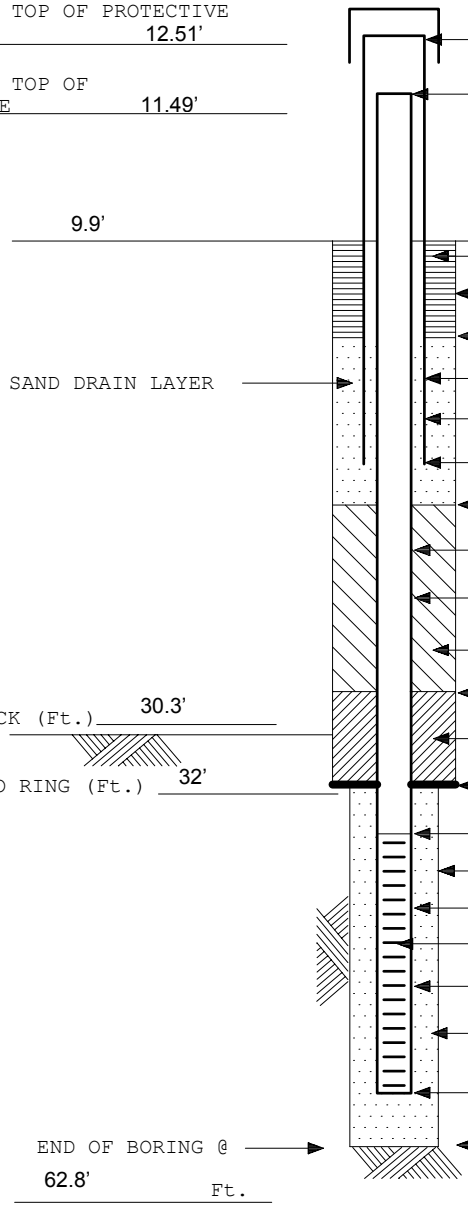
Note:
2 Stainless Steel centralizers placed on well screen.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-313B
CLIENT: US EPA Region 1
BORING NO: SB-313B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Scott Bray
BORING LOCATION: Access Road between Main St. and Sutton
LOGGED BY: K. O'Neill
DATE:
CHECKED BY:
DATE:
PAGE: 1 OF 1



ELEVATION TOP OF PROTECTIVE CASING: 12.51'
ELEVATION TOP OF RISER PIPE: 11.49'
GROUND ELEVATION: 9.9'
DEPTH TO BEDROCK (Ft.): 30.3'
DEPTH TO RING (Ft.): 32'

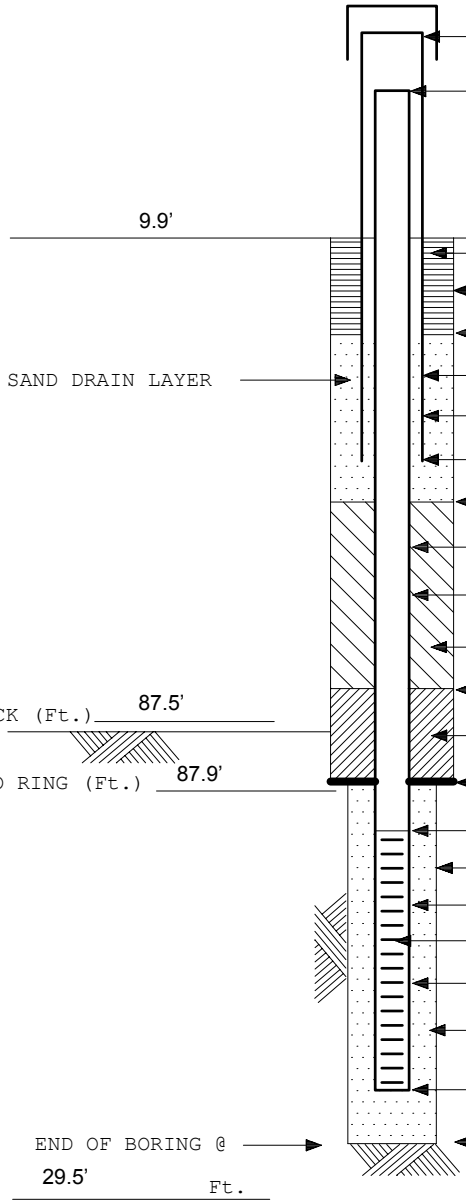
LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.61'
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.59'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.4'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.: 2.25"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	27.3'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	32'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	32'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020" factory slotted
PERVIOUS SECTION (In.) I.D.: 2" O.D.: 2.25"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	62'
DEPTH BOTTOM OF FILTER PACK (Ft.)	62.4'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-313D
CLIENT: US EPA Region 1
BORING NO: SB-313D
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: S. Bray
BORING LOCATION:
LOGGED BY: D. Whalen
DATE: 02/19/99
CHECKED BY:
DATE:
PAGE: 1 OF 1



GROUND ELEVATION	9.9'
LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.55'
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.71'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	3.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.0'
RISER PIPE (In.) I.D.: 2" O.D.: 2.25"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TO BEDROCK (Ft.)	87.5'
DEPTH TOP OF SEAL (Ft.)	4'
TYPE OF SEAL	Bentonite Chips
DEPTH TO RING (Ft.)	87.9'
DEPTH BOTTOM OF SEAL (Ft.)	15.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	18'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.01"
PERVIOUS SECTION (In.) I.D.: 2" O.D.: 2.25"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 1 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	28.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	29.5'

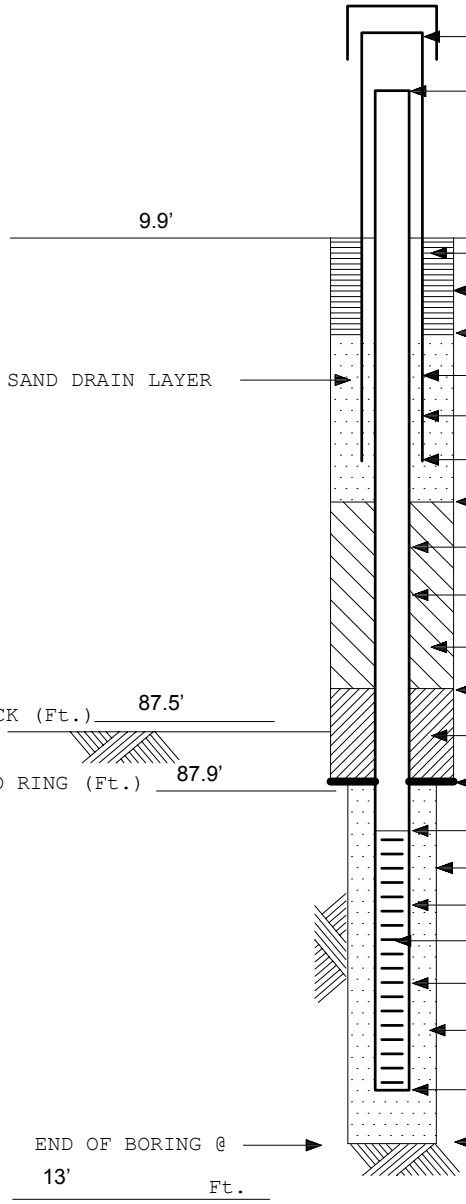
G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-313S
CLIENT: US EPA Region 1
BORING NO: SB-313S
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: S. Bray
BORING LOCATION:
LOGGED BY: D. Whalen
DATE: 02/19/99
CHECKED BY:
DATE:

PAGE: 1 OF 1



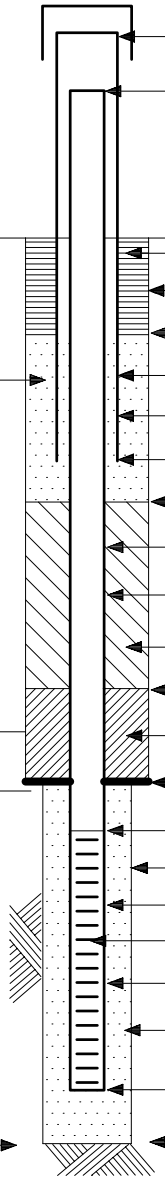
LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.76'
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.88'
GROUND ELEVATION	9.9'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12'
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.1'
RISER PIPE (In.) I.D.: 2" O.D.:	2.25"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TO BEDROCK (Ft.)	87.5'
DEPTH TOP OF SEAL (Ft.)	2.1'
TYPE OF SEAL	Bentonite Chips
DEPTH TO RING (Ft.)	87.9'
DEPTH BOTTOM OF SEAL (Ft.)	2.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	3'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.01"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.25"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 1 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	12.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	12.5'

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-401B
CLIENT: US EPA Region 1
BORING NO: 401B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Marty Harrington
BORING LOCATION: OU4 Memorial Ballfied near S. fence & border w/contract plating
LOGGED BY: Tracy Dorgan
DATE: 12/19/98
CHECKED BY:
DATE:
PAGE: 1 OF 1



ELEVATION TOP OF PROTECTIVE CASING	25.69'
ELEVATION TOP OF RISER PIPE	25.36'
GROUND ELEVATION	23.4'
DEPTH TO BEDROCK (Ft.)	~36'
DEPTH TO RING (Ft.)	37.0'
LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.19
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.74
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	5 in.
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5
I.D. OF PROTECTIVE CASING (In.)	4
TYPE OF PROTECTIVE CASING	Steel Pipe
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.6
RISER PIPE (In.) I.D.: 2	O.D.: 2.25
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bent.& Water Slurry
DEPTH TOP OF SEAL (Ft.)	34.2'
TYPE OF SEAL	Bentonite
DEPTH BOTTOM OF SEAL (Ft.)	36.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	37.5'
DIAMETER OF BOREHOLE (In.)	3.0
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.020" factory slottted
PERVIOUS SECTION (In.) I.D.: 2	O.D.: 2.25
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	57
DEPTH BOTTOM OF FILTER PACK (Ft.)	No filter pack

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

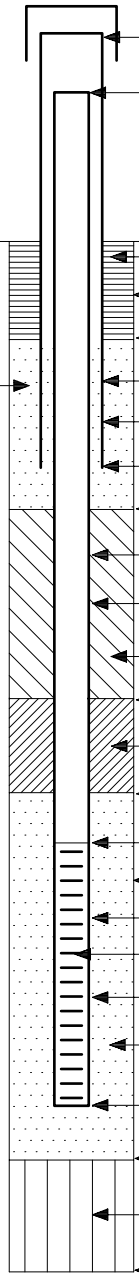
OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: 401S
CLIENT: U.S. EPA Region 1
BORING NO: SB-401S
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: K.Kutarnia
BORING LOCATION: Memorial Ballfield off Frog Pond Lane
LOGGED BY: A.Putnam
DATE: 01/27/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 25.12'

ELEVATION TOP OF RISER PIPE 24.77'

GROUND ELEVATION 23.0'



2 Stainless Steel centralizers placed on well screen.

LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.12'
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.72
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	8"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.2'
I.D. OF PROTECTIVE CASING (In.)	4 ¼"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4'
RISER PIPE (In.) I.D. 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	10'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	12.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	15'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	10 Slot 0.010"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	15'
DEPTH BOTTOM OF FILTER PACK (Ft.)	26.4'
TYPE OF BACKFILL BELOW FILTER PACK	----------
END OF BORING (Ft.)	26.4'

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

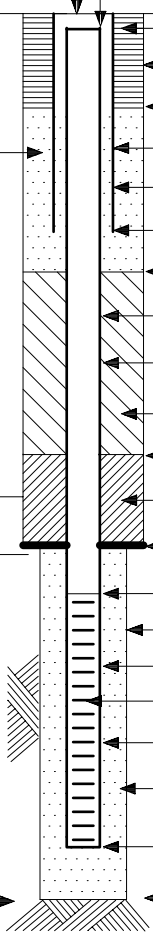
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark
PROJECT NO:
PROJECT LOCATION: Stratford, CT
WELL NO: MW-402B
CLIENT: US EPA – Region 1
BORING NO: SB-402B
CONTRACTOR: Aquifer Drilling & Testing
DRILLER: Scott Bray
BORING LOCATION: Daley Construction Yard
LOGGED BY: John R. Trottier
DATE: 01/19/99
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 12.98'

ELEVATION TOP OF RISER PIPE 12.67'

GROUND ELEVATION 13.0'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.33'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0
I.D. OF PROTECTIVE CASING (In.)	8 in.
TYPE OF PROTECTIVE CASING	Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3
RISER PIPE (In.) I.D.: 2	O.D.: 3.25
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	58.80
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	60.80
DEPTH TOP OF PERVIOUS SECTION (Ft.)	61.10
DIAMETER OF BOREHOLE (In.)	3
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.02" factory slotted
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.25
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	121.10
DEPTH BOTTOM OF FILTER PACK (Ft.)	121.95

GENERAL NOTE:

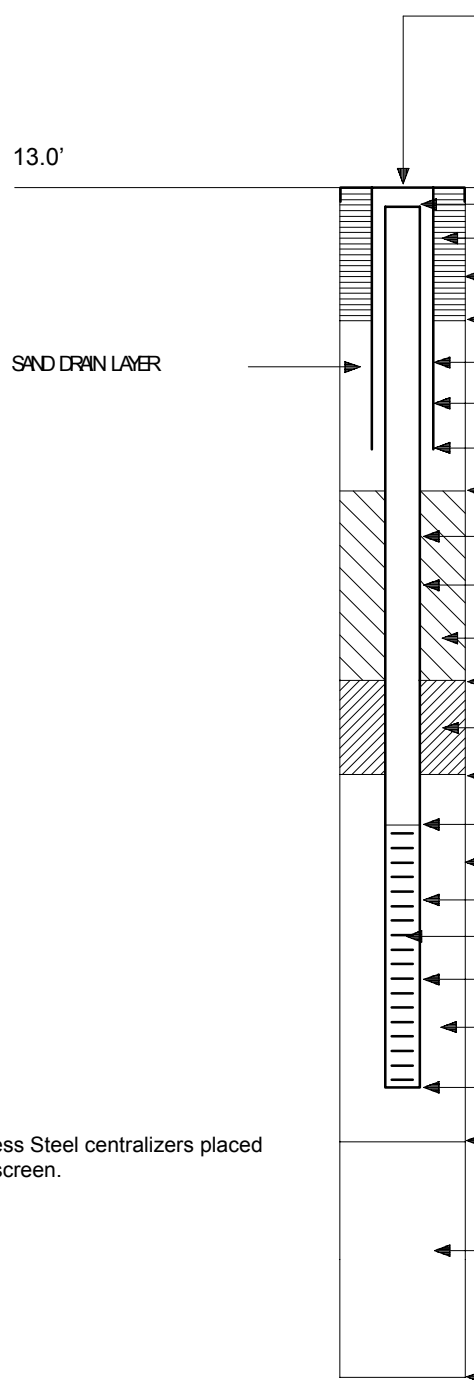
1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark	PROJECT NO:	
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-402S
CLIENT:	U.S. EPA Region I	BORING NO:	SB-402S renumbered 01/27/99
CONTRACTOR:	Aquifer Drilling & Testing	DRILLER:	K.Kutarnia
LOGGED BY:	A.Putnam	DATE:	01/22/99
CHECKED BY:		DATE:	

BORING LOCATION: OU4 Ballfield just inside the Entrance gate

PAGE 1 OF 1



LENGTH RISER PIPE BELOW GRD. SURF. (Ft.)	4"
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	10"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	8 ¼"
TYPE OF PROTECTIVE CASING	Steel Flush Mount
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.9'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.3"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	----------
DEPTH TOP OF SEAL (Ft.)	2.9'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	3.9'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	10 Slot 0.010"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2..3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	20'
DEPTH BOTTOM OF FILTER PACK (Ft.)	21.2'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	----------
END OF BORING	21.2'

Note:
2 Stainless Steel centralizers placed on well screen.

GENERAL NOTE:

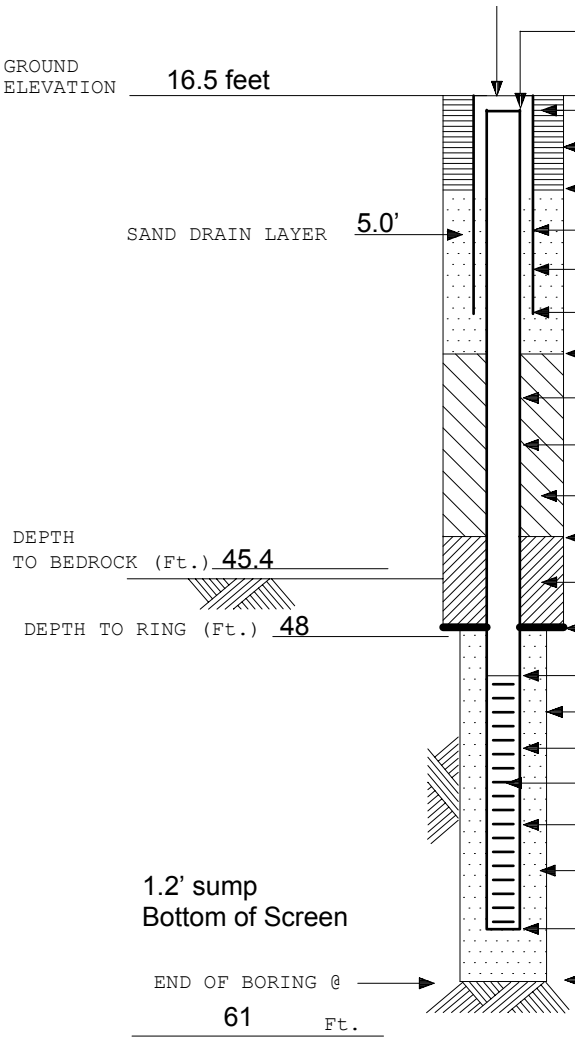
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-501B
CLIENT: U.S EPA Region I
BORING NO: SB-501B
CONTRACTOR: ADT
DRILLER: Les Darrow
BORING LOCATION: Allyndale Road and East Main
LOGGED BY: Chuck Meyer
DATE: 8/13/02 – 8/14/02
CHECKED BY: J. Danieli, D. Hartigan
DATE: 8/18/03, 9/22/03

Elevation Top of Protective Casing 16.70 feet

Elevation Top of Riser Pipe 16.72 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.6'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	12"
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite slurry
DEPTH TOP OF SEAL (Ft.)	38'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	48'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	48.5'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	58.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	None open borehole

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-501D
CLIENT:	U.S EPA Region I	BORING NO:	SB-501D
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	Chuck Meyer	DATE:	9/4/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

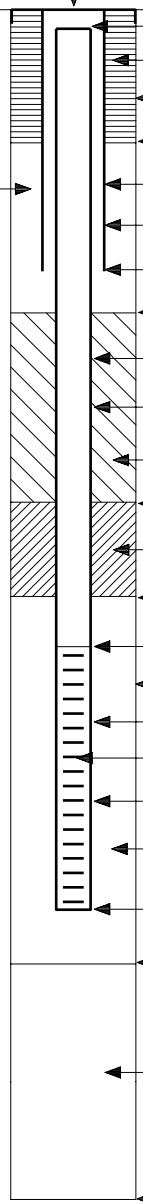
BORING LOCATION: Corner of Allendale and East Main Street

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.57 feet

Elevation Top of Riser Pipe 16.05 feet

GROUND ELEVATION 16.5 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	24”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5”
I.D. OF PROTECTIVE CASING (In.)	5”
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: 2.0” O.D.: 2.375”	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	32.5’
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	35.7’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	38.5’
DIAMETER OF BOREHOLE (In.)	4”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.01 screen
PERVIOUS SECTION (In.) I.D.: 2” O.D.: 2.375”	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	0.0 sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	43.5’
DEPTH BOTTOM OF FILTER PACK (Ft.)	43.8’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	1.2’ PVC Sump
END OF BORING	45’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-501S
CLIENT:	U.S EPA Region I	BORING NO:	SB-501S
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	Chuck Meyer	DATE:	8/15/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

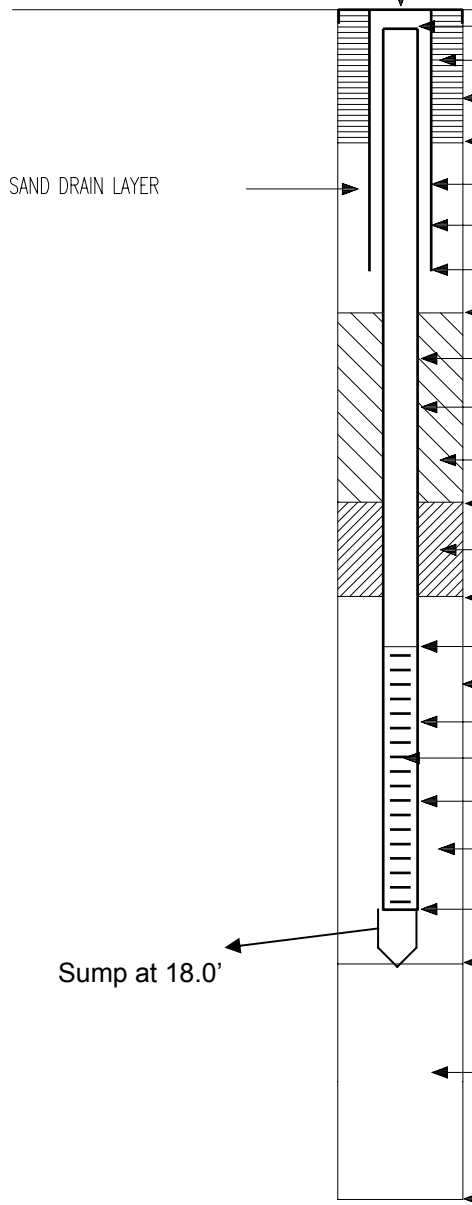
BORING LOCATION: Corner Allyndale and East Main Street

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.60 feet

Elevation Top of Riser Pipe 16.01 feet

GROUND ELEVATION 16.5 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.6'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	0 Sand
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite
DEPTH BOTTOM OF SEAL (Ft.)	5.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.6'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	0 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	16.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	19.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	None
END OF BORING	19.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

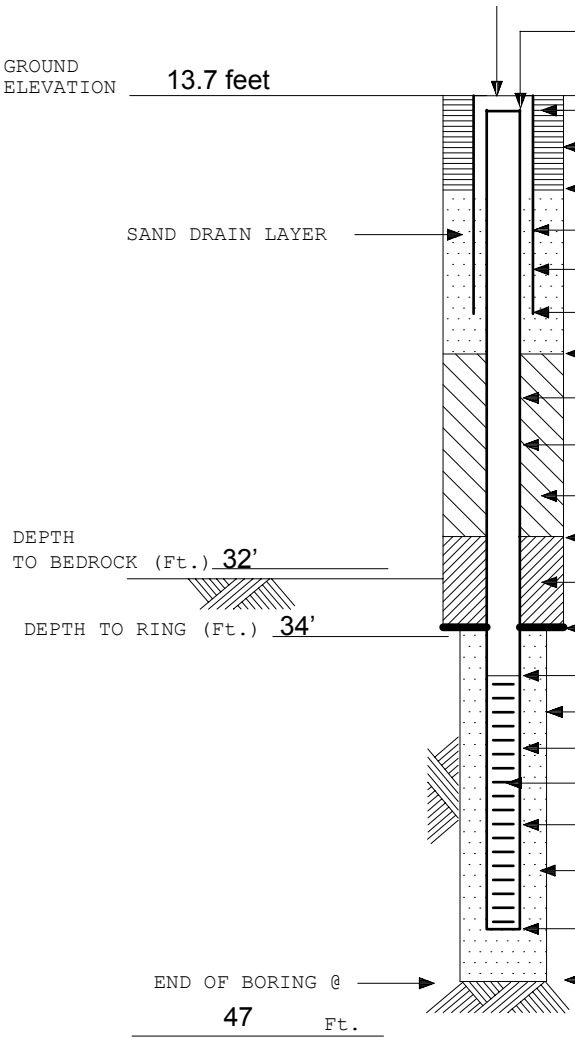
TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-502B
CLIENT: U.S EPA Region I
BORING NO: SB-502B
CONTRACTOR: ADT
DRILLER: Loyd Adams
BORING LOCATION: Parking space between McDonalds and Marshalls, Stratford square Shopping center.
LOGGED BY: Bob Balkovec
DATE: 8/12/02 – 8/20/02
CHECKED BY: J. Danieli, D. Hartigan
DATE: 8/18/03, 9/22/03
PAGE: 1 OF 1

Elevation Top of Protective Casing 13.74 feet

Elevation Top of Riser Pipe 13.44 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	8.5"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.5'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite slurry
DEPTH TOP OF SEAL (Ft.)	28.5'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	34'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	34.6'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	2" PVC
TYPE OF OPENINGS	0.020"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	44.6'
DEPTH BOTTOM OF FILTER PACK (Ft.)	None

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

TtNUS form 0060

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

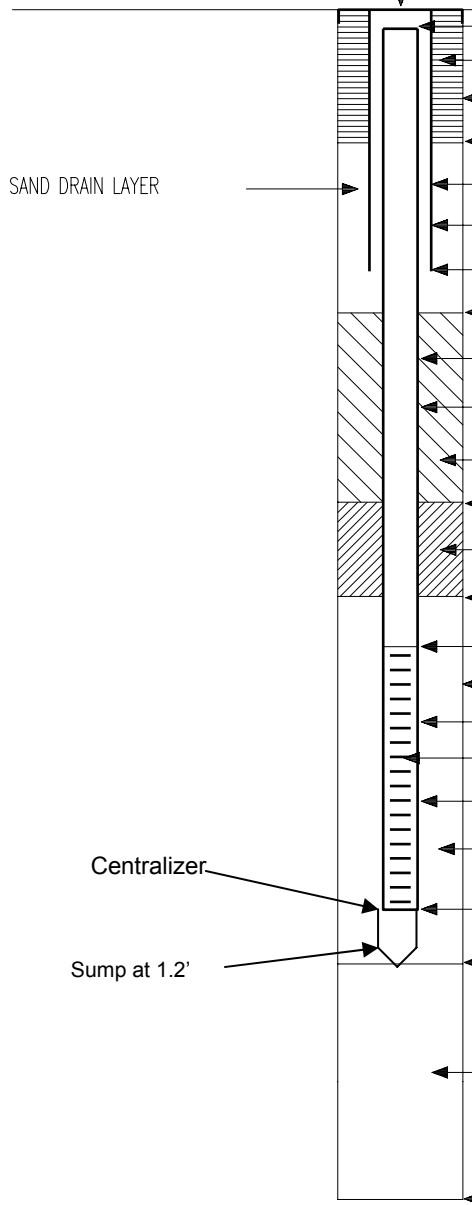
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-502D
CLIENT:	U.S EPA Region I	BORING NO:	SB-502D
CONTRACTOR:	ADT	BORING LOCATION:	Parking space dir. between McDonalds and Marshalls
DRILLER:	Jim Philbin		
LOGGED BY:	J. Lambert	DATE:	9/13/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 13.69 feet

Elevation Top of Riser Pipe 13.42 feet

GROUND ELEVATION 13.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.1'
TYPE OF SURFACE SEAL	Bentonite Cement
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.3'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	8.0'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	8.0'
TYPE OF SEAL	Bentonite Cement
DEPTH BOTTOM OF SEAL (Ft.)	22'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	24.7'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	29.7'
DEPTH BOTTOM OF FILTER PACK (Ft.)	30.9'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Bentonite Chips
END OF BORING	32'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

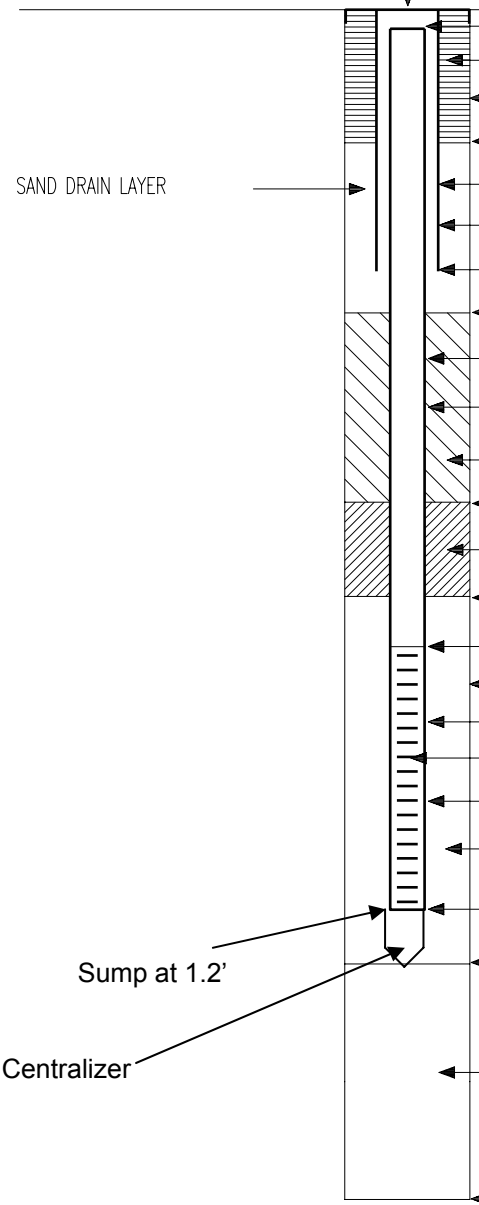
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-502S
CLIENT:	U.S EPA Region I	BORING NO:	SB-502S
CONTRACTOR:	ADT	BORING LOCATION:	Between McDonalds & Marshalls parking lot.
DRILLER:	Jim Philbin		
LOGGED BY:	J. Lambert	DATE:	9/16/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 13.64 feet

Elevation Top of Riser Pipe 13.42 feet

GROUND ELEVATION 13.6 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.2'
TYPE OF SURFACE SEAL	Concrete Pad
DIA. SURFACE SEAL BGS (In.)	15"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.0'
RISER PIPE (In.) I.D.: 2.0' O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	4.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	6.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	8.4'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	18.4'
DEPTH BOTTOM OF FILTER PACK (Ft.)	19'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	19.6'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

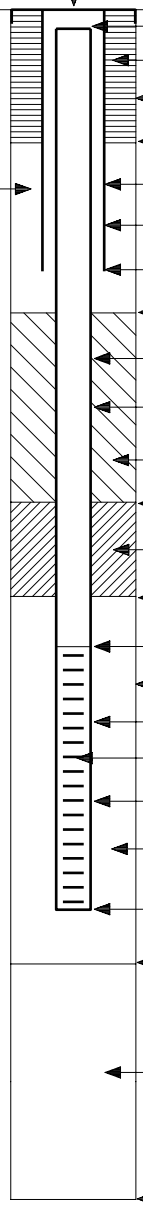
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-503B
CLIENT:	U.S EPA Region I	BORING NO:	SB-503B
CONTRACTOR:	ADT	BORING LOCATION:	Behind Schock's Auto body shop.
DRILLER:	Les Darrow		
LOGGED BY:	Chuck Meyer	DATE:	8/21/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 6.69 feet

Elevation Top of Riser Pipe 6.21 feet

GROUND ELEVATION 6.7 feet



FLUSH MOUNT PROTECTIVE CASING	
LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	18"
SAND DRAIN LAYER	
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Grout
DEPTH TOP OF SEAL (Ft.)	86.5'
TYPE OF SEAL	Bentonite pellets
DEPTH BOTTOM OF SEAL (Ft.)	90.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	91.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC screen
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	101'
DEPTH BOTTOM OF FILTER PACK (Ft.)	102.2'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	104 ft.
END OF BORING	

1130 – Bentonite Seal was begun using bentonite pellets.

1230 – Bentonite seal was 3 feet thick at 88'.

1240 – ADT personnel began backing off casing CM calls Tracy Dorgan to discuss seal, he wants at least to 85 feet sealed off.

1315 – ADT personnel are having problems with bridging of the bentonite. They break the bridge with pipe.

1335 – Bridging is occurring again ADT wants to pull casing.

1340 – CM calls Tracy Dorgan to discuss the issue and ADT person Mark Larabie will be out.

1400 – Grout pumping was begun and casing is pulled.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

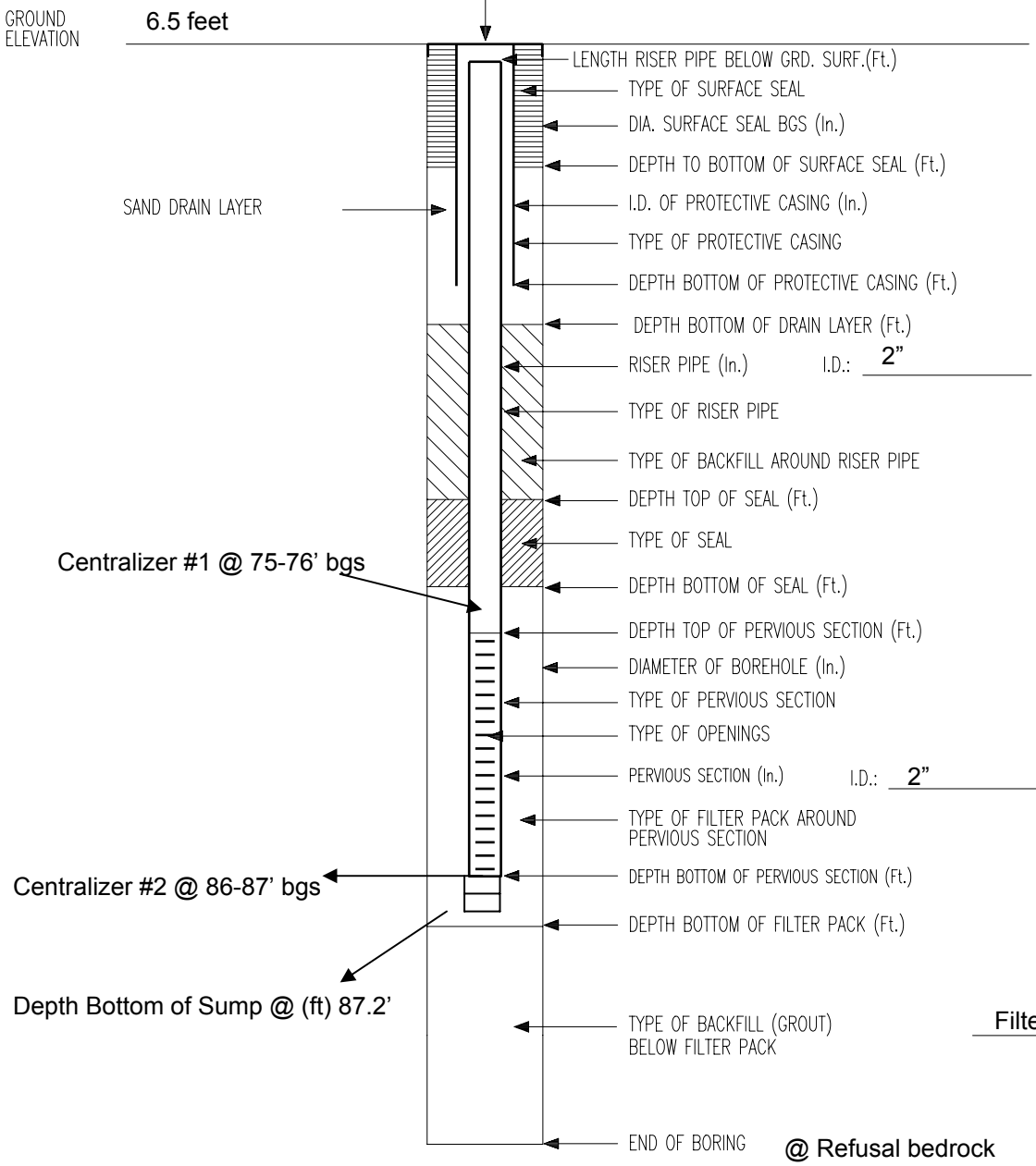
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-503D
CLIENT:	U.S EPA Region I	BORING NO:	SB-503D
CONTRACTOR:	ADT	BORING LOCATION:	Behind Schock's Auto Body Shop
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	9/17/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 6.66 feet

Elevation Top of Riser Pipe 5.76 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	16"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.7'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Raod Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	72'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	74'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	76'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	86'
DEPTH BOTTOM OF FILTER PACK (Ft.)	87.2'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Filter Sand
END OF BORING @ Refusal bedrock encountered	87.2'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

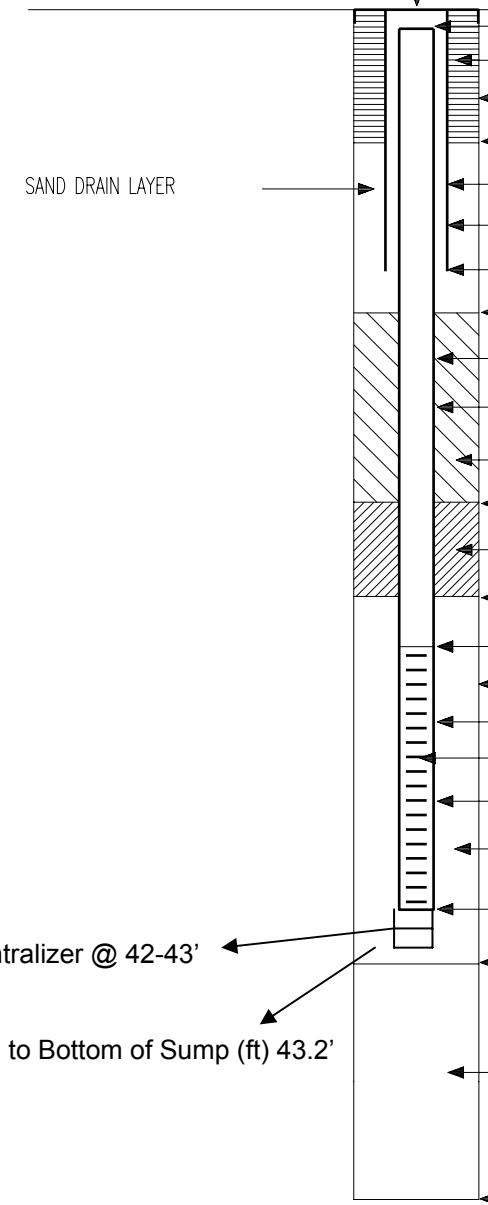
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-503M
CLIENT:	U.S EPA Region I	BORING NO:	SB-503M
CONTRACTOR:	ADT	BORING LOCATION:	Behind Schock's Auto Body Shop
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	9/18/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 6.60 feet

Elevation Top of Riser Pipe 6.00 feet

GROUND ELEVATION 6.5 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.7'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Metal
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.4'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Slurry Mixture
DEPTH TOP OF SEAL (Ft.)	31.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	34.5''
DEPTH TOP OF PERVIOUS SECTION (Ft.)	37'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	42'
DEPTH BOTTOM OF FILTER PACK (Ft.)	43.2'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural Material
END OF BORING	43.2'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

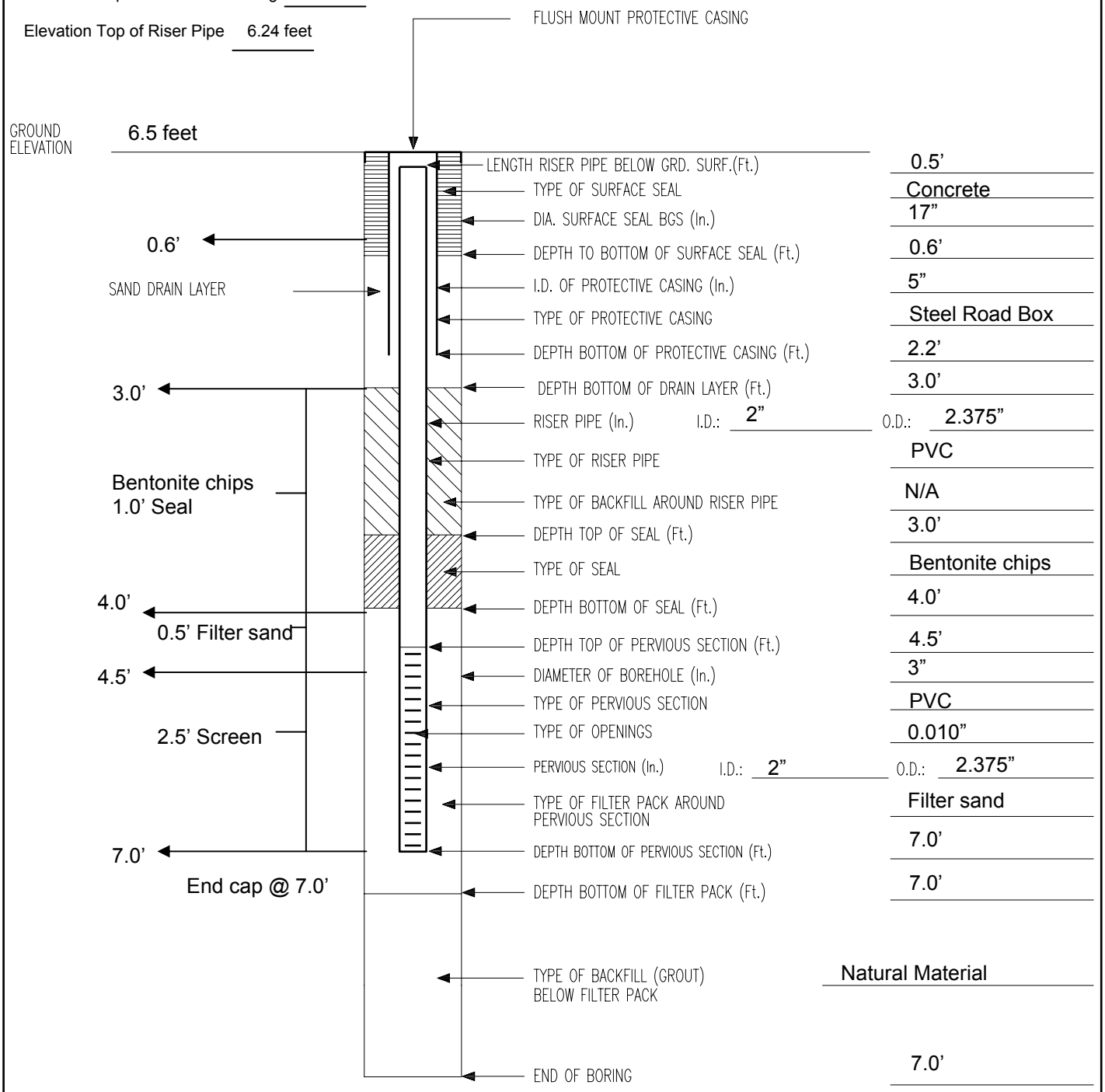
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-503S
CLIENT:	U.S EPA Region I	BORING NO:	SB-503S
CONTRACTOR:	ADT	BORING LOCATION:	Behind Schocks Auto body shop.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	9/18/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 6.71 feet

Elevation Top of Riser Pipe 6.24 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	4.5'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	7.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	7.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural Material
END OF BORING	7.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

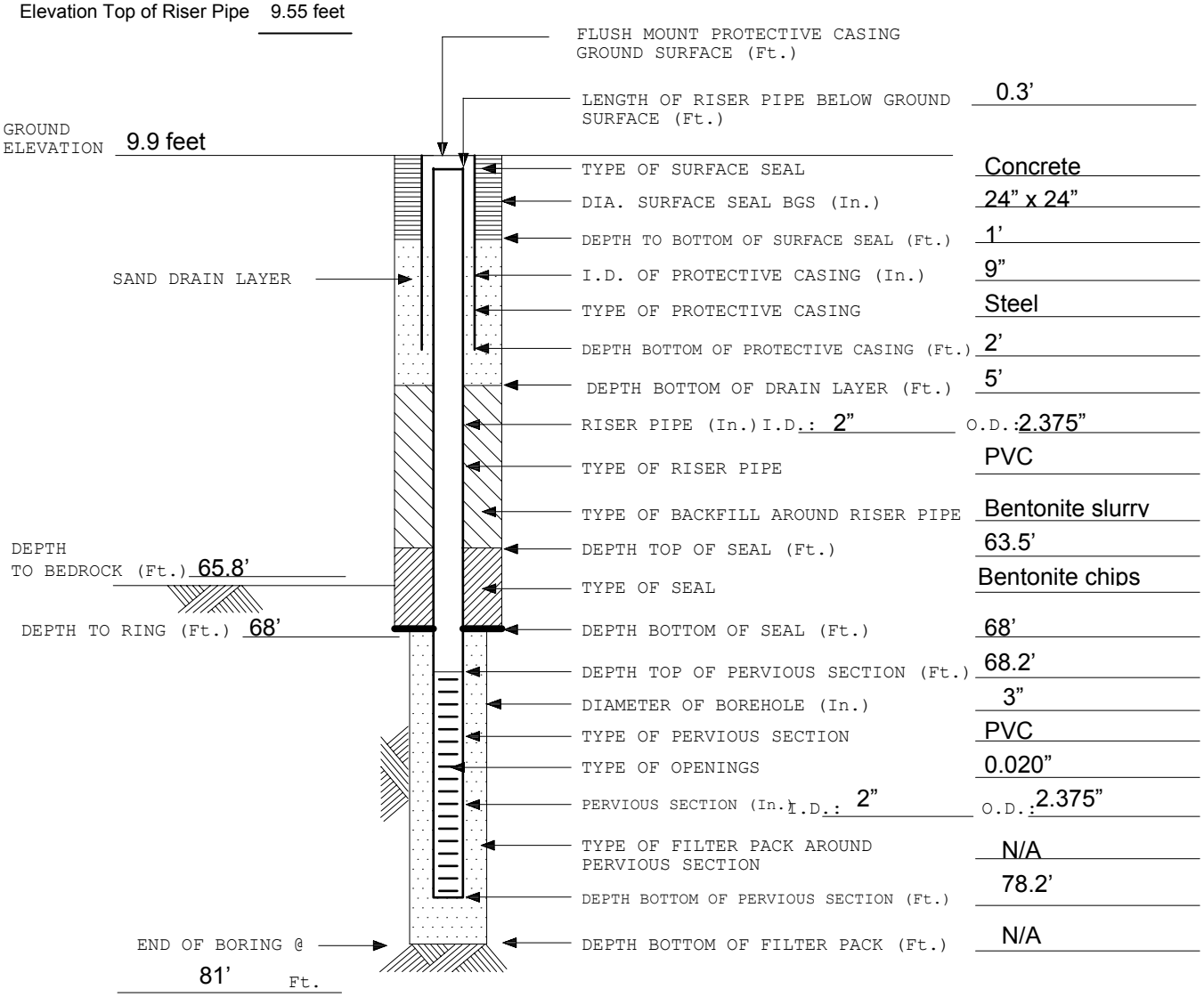
TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-504B
CLIENT: U.S EPA Region I
BORING NO: SB-504B
CONTRACTOR: ADT
DRILLER: Jim Philbin
BORING LOCATION: Behind Marshalls Department Store
LOGGED BY: Bob Balkovec
DATE: 8/29/02 – 9/4/02
CHECKED BY: J. Danieli, D. Hartigan
DATE: 8/18/03, 9/22/03

Elevation Top of Protective Casing 9.88 feet

Elevation Top of Riser Pipe 9.55 feet



G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-504D
CLIENT:	U.S EPA Region I	BORING NO:	SB-504D
CONTRACTOR:	ADT	BORING LOCATION:	Behind Marshalls Dept. Store
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/1/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

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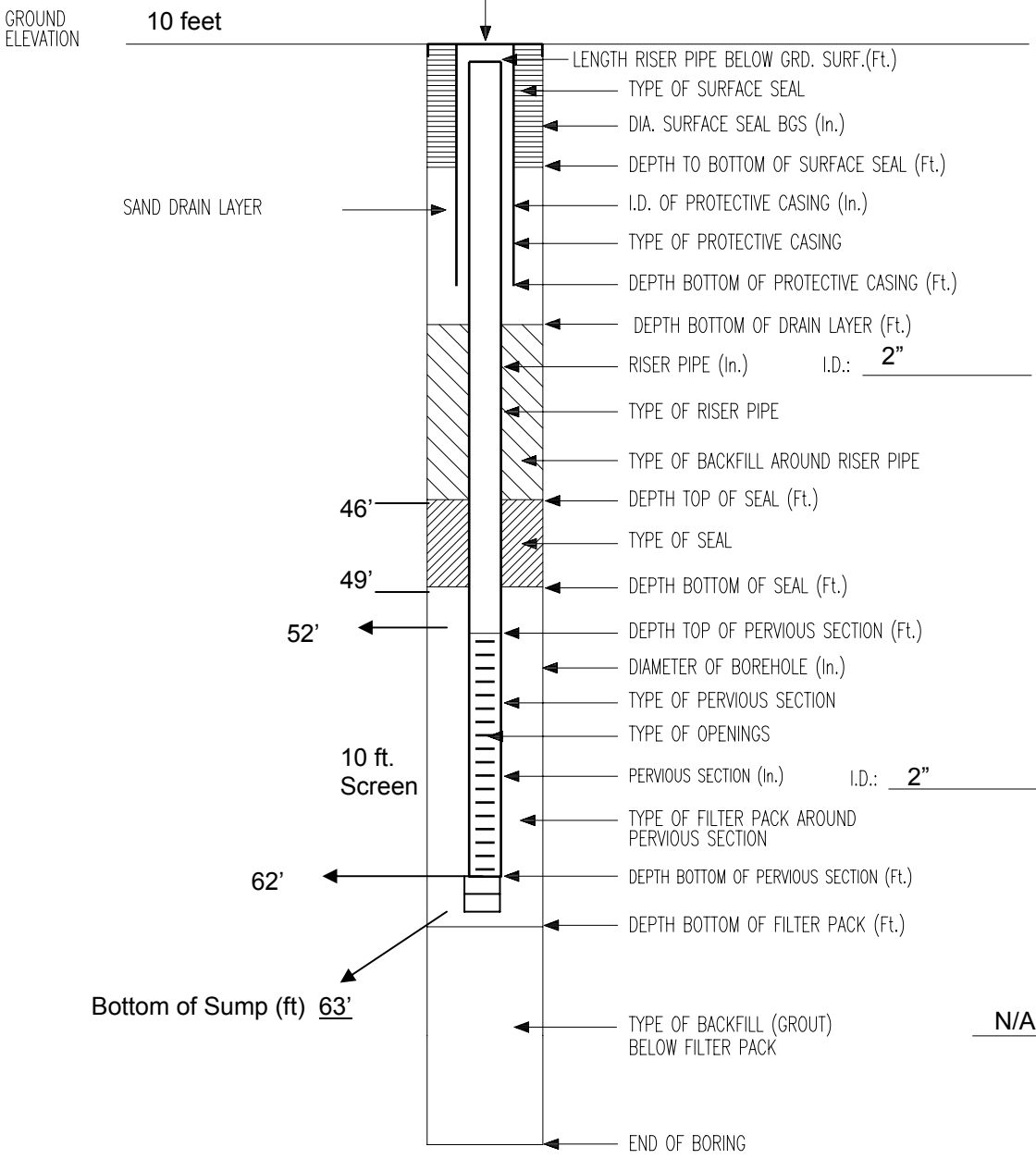
Elevation Top of Protective Casing 9.97 feet

Elevation Top of Riser Pipe 9.17 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)		0.5'
TYPE OF SURFACE SEAL		Concrete
DIA. SURFACE SEAL BGS (In.)		20"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		0.5'
I.D. OF PROTECTIVE CASING (In.)		5"
TYPE OF PROTECTIVE CASING		Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		2.5'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE		PVC
TYPE OF BACKFILL AROUND RISER PIPE		Slurry Mix
DEPTH TOP OF SEAL (Ft.)		46'
TYPE OF SEAL		Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)		49'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		52'
DIAMETER OF BOREHOLE (In.)		3'
TYPE OF PERVIOUS SECTION		PVC
TYPE OF OPENINGS		0.010"
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		62'
DEPTH BOTTOM OF FILTER PACK (Ft.)		63'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		N/A
END OF BORING		63'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

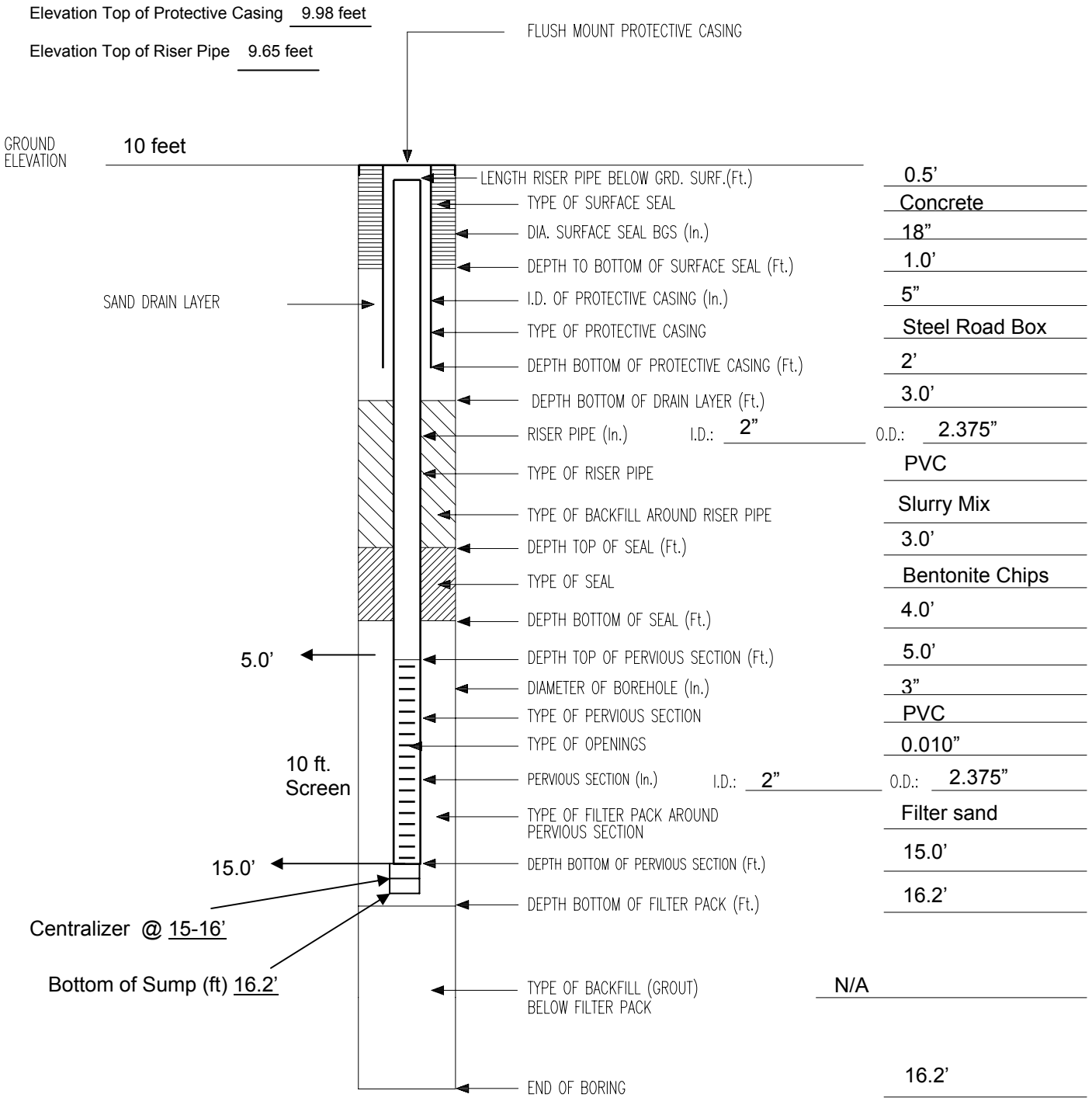
FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-504S
CLIENT:	U.S EPA Region I	BORING NO:	SB-504S
CONTRACTOR:	ADT	BORING LOCATION:	Behind Marshalls Dept. Store
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/2/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 9.98 feet

Elevation Top of Riser Pipe 9.65 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Slurry Mix
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	4.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.0'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	15.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	16.2'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	16.2'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

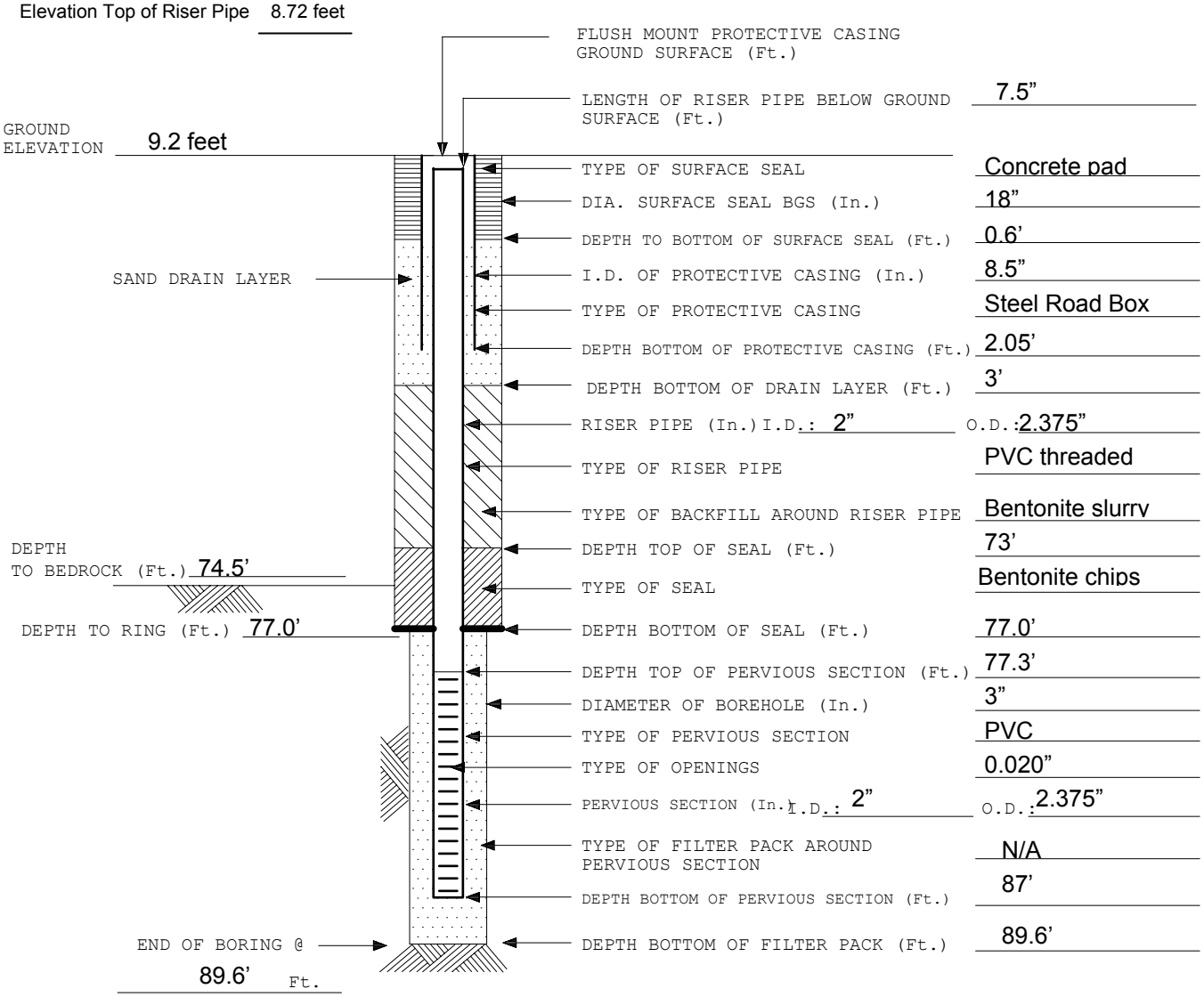
TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2		PROJECT NO: N4236-0320	
PROJECT LOCATION: Stratford, CT		WELL NO: MW-505B	
CLIENT: U.S EPA Region I		BORING NO: SB-505B	
CONTRACTOR: ADT	DRILLER: Les Darrow	BORING LOCATION: Behind Marshalls	
LOGGED BY: C. Rousseau	DATE: 8/27/02		
CHECKED BY: J. Danieli, D. Hartigan	DATE: 8/18/03, 9/22/03	PAGE: 1 OF 1	

Elevation Top of Protective Casing 9.39 feet

Elevation Top of Riser Pipe 8.72 feet



NOTES: * Sump – 1.2 ft. – Depth to bottom of Sump 88.2’
N/A – not applicable
Start Const. – @ 0655
End const. - @ 1240

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

TtNUS form 0060

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-505D
CLIENT:	U.S EPA Region I	BORING NO:	SB-505D
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	C. Rousseau	DATE:	10/10/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

BORING LOCATION: Behind Marshalls in landscaped area next to on-ramp.

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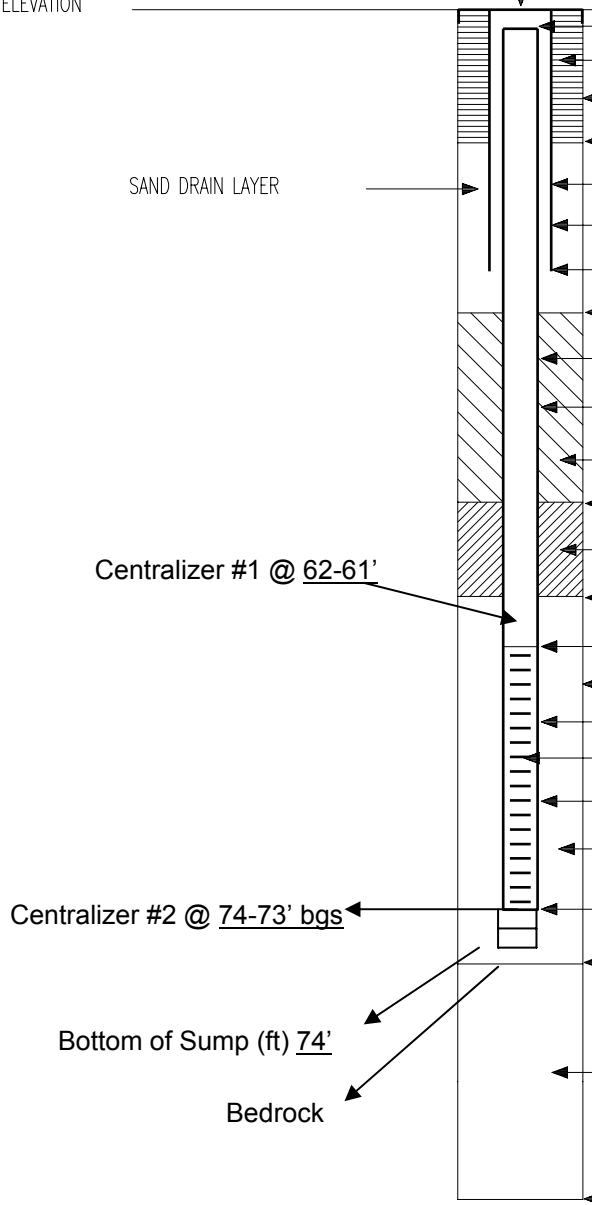
Elevation Top of Protective Casing 9.47 feet

Elevation Top of Riser Pipe 8.92 feet

GROUND ELEVATION 9.4 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.7'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.5'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Slurry Mix
DEPTH TOP OF SEAL (Ft.)	59.2'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	61'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	63'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	73'
DEPTH BOTTOM OF FILTER PACK (Ft.)	74'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Bedrock @ 74'
END OF BORING	74'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

WL –6.74' below PVC @ 1135

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

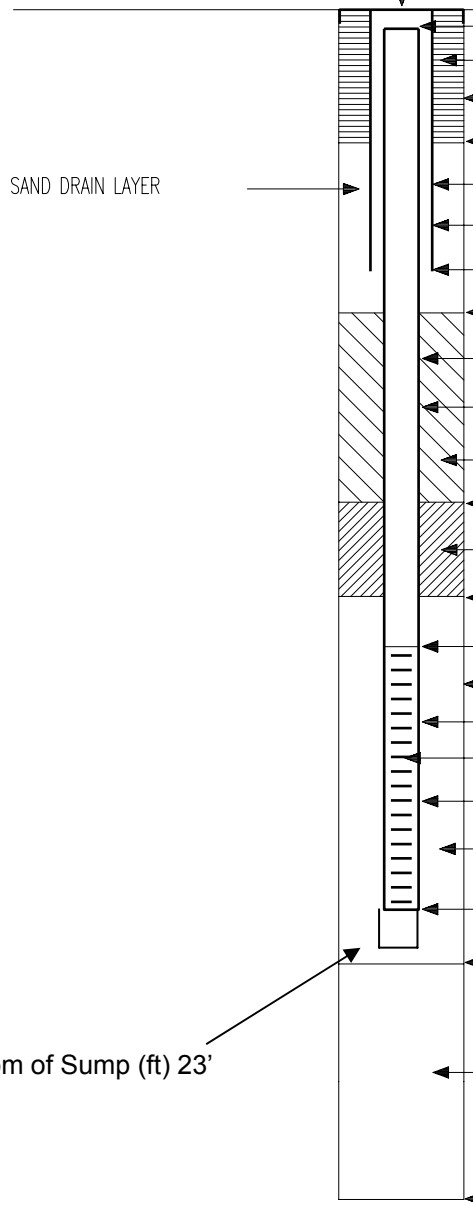
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-505M
CLIENT:	U.S EPA Region I	BORING NO:	SB-505M
CONTRACTOR:	ADT	BORING LOCATION:	Behind Marshalls
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/10/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.54 feet

Elevation Top of Riser Pipe 8.99 feet

GROUND ELEVATION 9.5 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	15.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	17.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	22.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	23.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural
END OF BORING	23.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

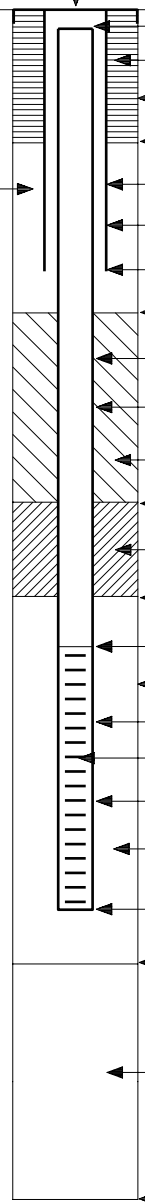
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-505S
CLIENT:	U.S EPA Region I	BORING NO:	SB-505S
CONTRACTOR:	ADT	BORING LOCATION:	Behind Marshalls
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/11/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.78 feet

Elevation Top of Riser Pipe 9.03 feet

GROUND ELEVATION 9.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)		0.5’
TYPE OF SURFACE SEAL		Concrete
DIA. SURFACE SEAL BGS (In.)		17”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		0.7’
I.D. OF PROTECTIVE CASING (In.)		5.0”
TYPE OF PROTECTIVE CASING		Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2.0’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		3.0’
RISER PIPE (In.)	I.D.: 2.0”	O.D.: 2.375”
TYPE OF RISER PIPE		PVC
TYPE OF BACKFILL AROUND RISER PIPE		Slurry Mix
DEPTH TOP OF SEAL (Ft.)		3.0’
TYPE OF SEAL		Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)		4.0’
DEPTH TOP OF PERVIOUS SECTION (Ft.)		5.0’
DIAMETER OF BOREHOLE (In.)		3.0”
TYPE OF PERVIOUS SECTION		PVC
TYPE OF OPENINGS		0.010”
PERVIOUS SECTION (In.)	I.D.: 2.0”	O.D.: 2.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		15.0’
DEPTH BOTTOM OF FILTER PACK (Ft.)		16.0’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		Natural
END OF BORING		16.0’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

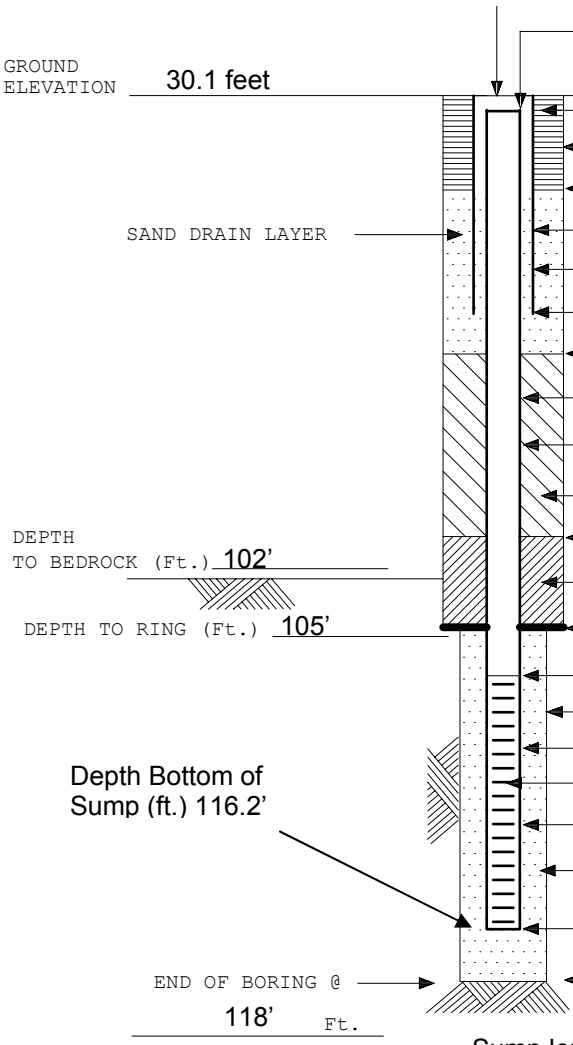
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Ravmark OU2		PROJECT NO: N4236-0320	
PROJECT LOCATION: Stratford, CT		WELL NO: MW-506B	
CLIENT: U.S EPA Region I		BORING NO: SB-506B	
CONTRACTOR: ADT	DRILLER: Les Darrow	BORING LOCATION:	
LOGGED BY: C. Rousseau	DATE: 8/29/02	Adjacent to Home Depot corner Of Barnum Ave.	
CHECKED BY: J. Danieli, D. Hartigan	DATE: 8/18/03, 9/22/03		

PAGE: 1 OF 1

Elevation Top of Protective Casing 30.22 feet

Elevation Top of Riser Pipe 29.65 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.5'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	19.2"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	6"
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.1'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite slurry / grout
DEPTH TOP OF SEAL (Ft.)	101'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	105'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	105.2'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	115'
DEPTH BOTTOM OF FILTER PACK (Ft.)	118'

Sump length approx. 1.2'
Bottom of Sump at 116.2 ft.

NOTE – Bentonite plug found in well after development – this boring abandoned. See boring/well construction logs for other MW506B.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

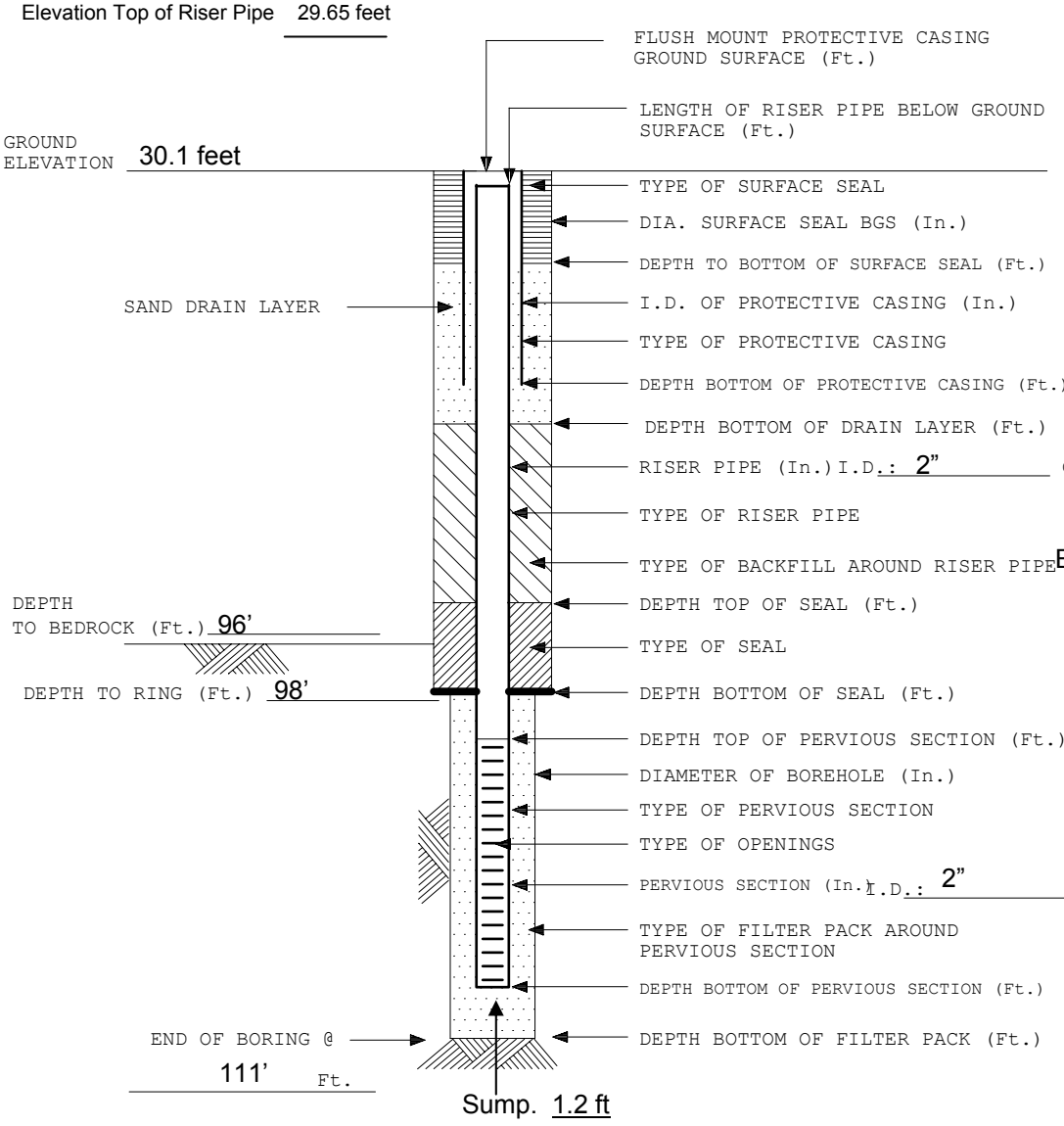
TtNUS form 0060

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2		PROJECT NO: N4236-0320	
PROJECT LOCATION: Stratford, CT		WELL NO: MW-506B - replacement	
CLIENT: U.S EPA Region I		BORING NO: SB-506B	
CONTRACTOR: ADT.	DRILLER: Les Darrow	BORING LOCATION:	
LOGGED BY: J. Lambert	DATE: 11/21/02	Corner of Barnum Ave.	
CHECKED BY: J. Danieli, D. Hartigan	DATE: 8/18/03, 9/22/03	Adjacent to Home Depot	
		PAGE: 1 OF 1	

Elevation Top of Protective Casing 30.22 feet

Elevation Top of Riser Pipe 29.65 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete Pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite chips, grout
DEPTH TOP OF SEAL (Ft.)	95'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	98'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	98'
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	108'
DEPTH BOTTOM OF FILTER PACK (Ft.)	N/A

* This is a replacement well for damaged original MW506B (SB506B)

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

TtNUS form 0060

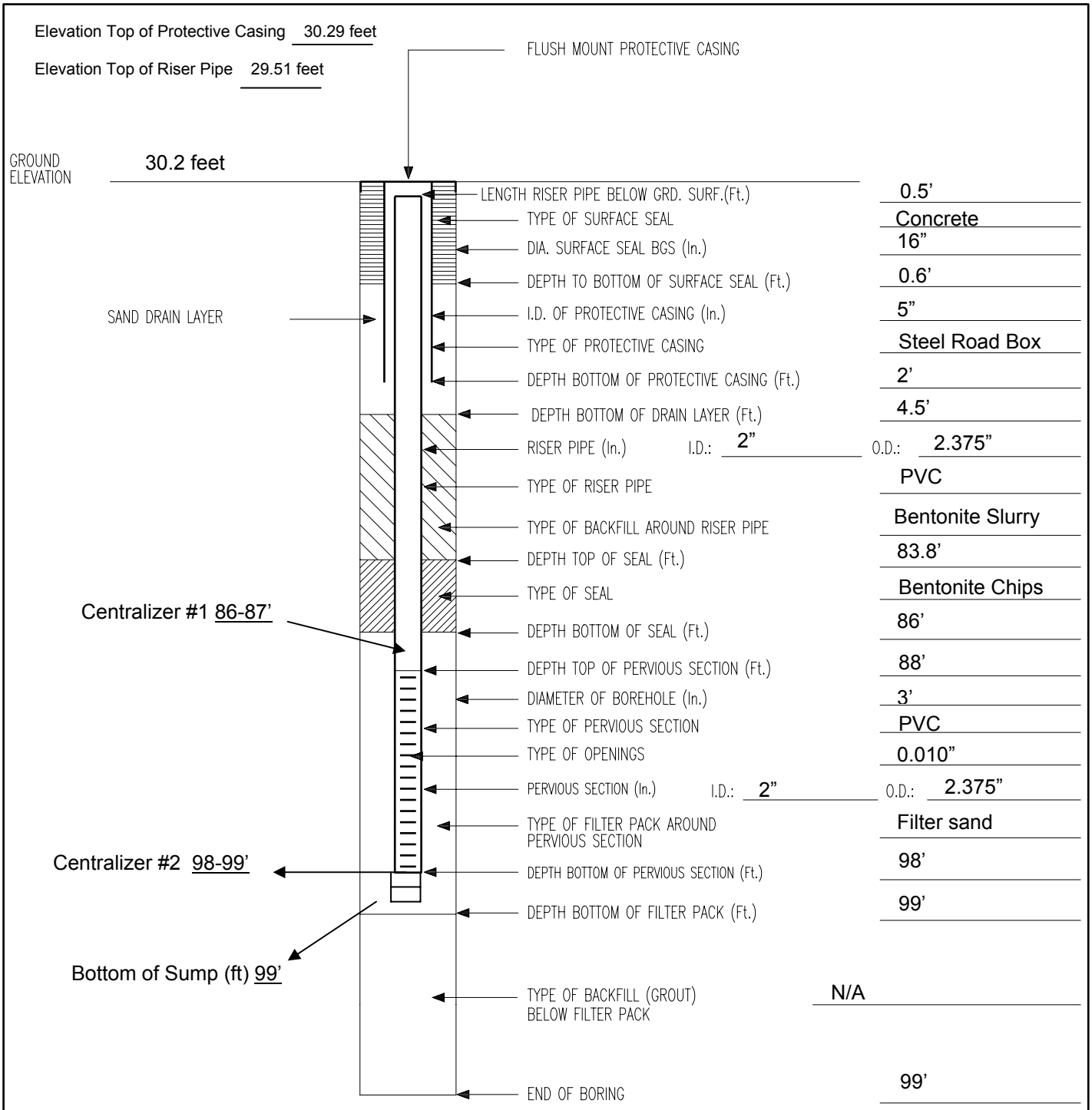
FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-506D
CLIENT:	U.S EPA Region I	BORING NO:	SB-506D
CONTRACTOR:	ADT	BORING LOCATION:	Adjacent to Home Deport
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	9/27/02 @ 0830
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 30.29 feet

Elevation Top of Riser Pipe 29.51 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	16"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.5'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	83.8'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	86'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	88'
DIAMETER OF BOREHOLE (In.)	3'
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	98'
DEPTH BOTTOM OF FILTER PACK (Ft.)	99'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	99'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

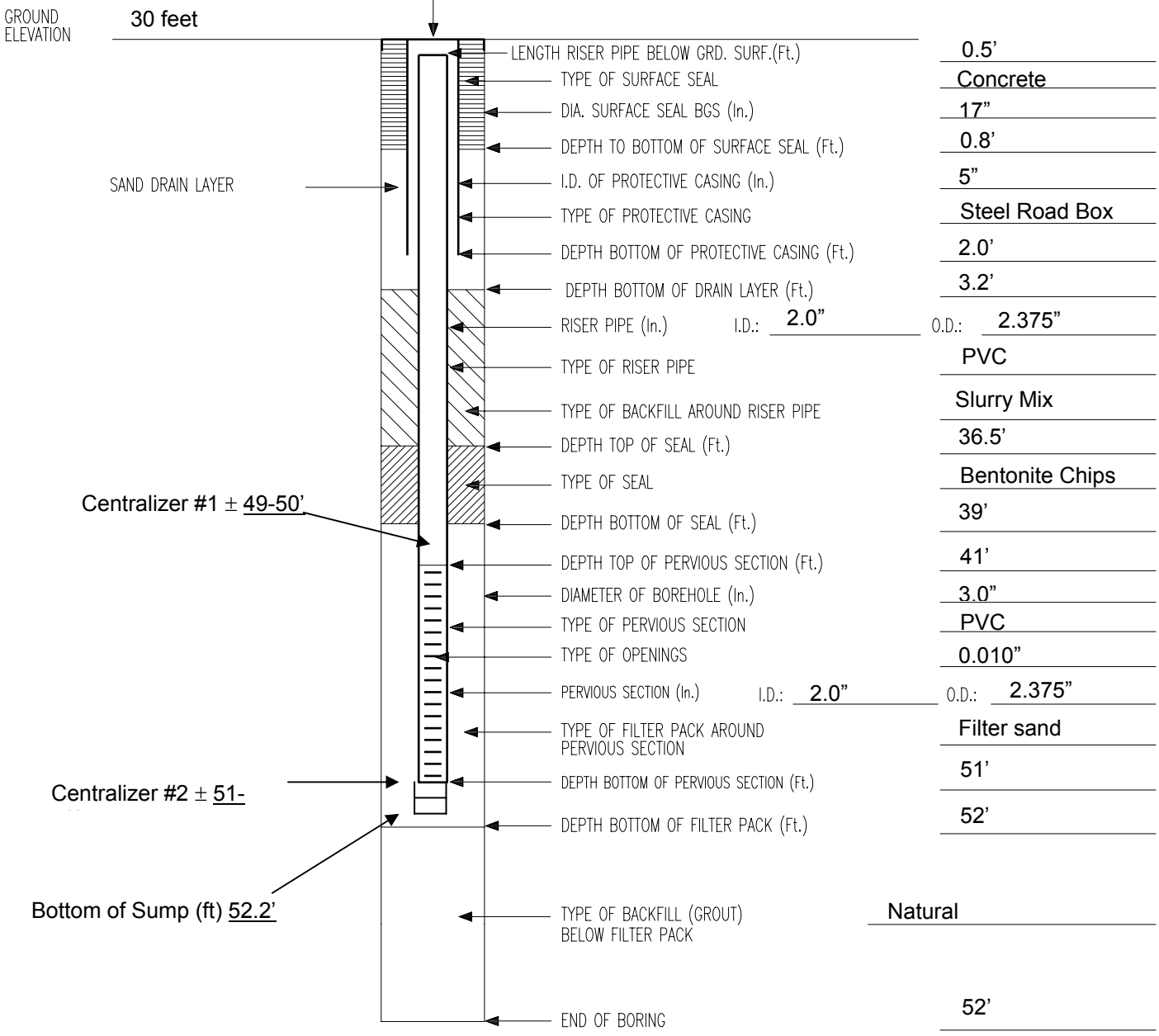
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-506M
CLIENT:	U.S EPA Region I	BORING NO:	SB-506M
CONTRACTOR:	ADT	BORING LOCATION:	Home Deport Parking lot and Longview Ave.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/14/02
CHECKED BY:	J. Danieli	DATE:	8/18/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 30.05 feet

Elevation Top of Riser Pipe 29.36 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.2'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Slurry Mix
DEPTH TOP OF SEAL (Ft.)	36.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	39'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	41'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	51'
DEPTH BOTTOM OF FILTER PACK (Ft.)	52'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural
END OF BORING	52'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

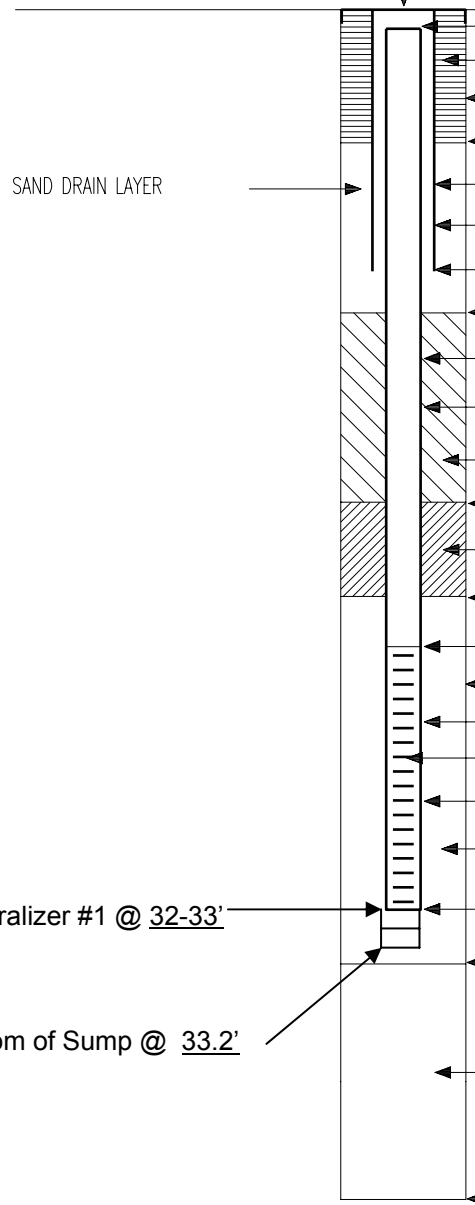
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-506S
CLIENT:	U.S EPA Region I	BORING NO:	SB-506S
CONTRACTOR:	ADT	BORING LOCATION:	Home Deport Parking lot
DRILLER:	Les Darrow		Barnum St.
LOGGED BY:	C. Rousseau	DATE:	10/15/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 29.70 feet

Elevation Top of Riser Pipe 27.21 feet

GROUND ELEVATION 29.6 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'		
TYPE OF SURFACE SEAL	Concrete		
DIA. SURFACE SEAL BGS (In.)	18"		
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'		
I.D. OF PROTECTIVE CASING (In.)	5.0"		
TYPE OF PROTECTIVE CASING	Steel Road Box		
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'		
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'		
RISER PIPE (In.)	I.D.: 2.0"	O.D.: 2.375"	
TYPE OF RISER PIPE	PVC		
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips		
DEPTH TOP OF SEAL (Ft.)	3.0'		
TYPE OF SEAL	Bentonite Chips		
DEPTH BOTTOM OF SEAL (Ft.)	19.5'		
DEPTH TOP OF PERVIOUS SECTION (Ft.)	22'		
DIAMETER OF BOREHOLE (In.)	3.0'		
TYPE OF PERVIOUS SECTION	PVC		
TYPE OF OPENINGS	0.010"		
PERVIOUS SECTION (In.)	I.D.: 2.0"	O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand		
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	32'		
DEPTH BOTTOM OF FILTER PACK (Ft.)	33'		
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural		
END OF BORING	33'		

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

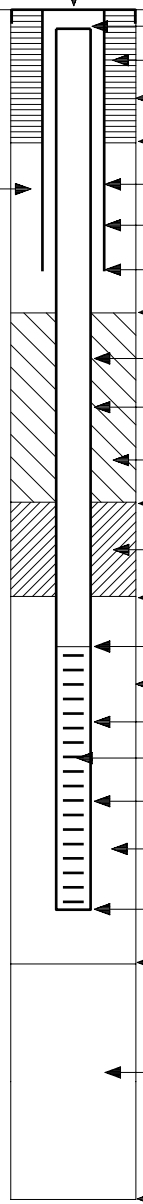
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-507B
CLIENT:	U.S EPA Region I	BORING NO:	SB-507B
CONTRACTOR:	ADT	BORING LOCATION:	Cul de sac Housatonic Ave.
DRILLER:	Les Darrow		
LOGGED BY:	Chuck Meyer	DATE:	9/5/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.66 feet

Elevation Top of Riser Pipe 15.13 feet

GROUND ELEVATION 15.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.0
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	24" X 24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	8"
I.D. OF PROTECTIVE CASING (In.)	4.5"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	
DEPTH TOP OF SEAL (Ft.)	46 ft.
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	48.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	49 ft.
DIAMETER OF BOREHOLE (In.)	3"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	None
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	59 ft.
DEPTH BOTTOM OF FILTER PACK (Ft.)	None
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	None, 1.2 ft. sump
END OF BORING	61.2 ft.

1530 – After putting in approximately 3 ft. of bentonite chips the drillers think its time to pull casing.

1535 – After pulling the casing up 0.5' and tagging the well it was found that the well was filling. CM calls FOL Tracy Dorgan he said he would be out.

1550 – The casing has filled to approximately 17 ft. It was decided to try and trim the sand out with a light grout mix.

1615 – After trying this it was decided to remove the casing to see if the sand would fall back down the hole. After removing 15 ft. of casing it was found that the casing was broken and the casing was backfilled with natural materials from 46 to 17 ft. It was decided to back fill with bentonite chips and see what happens during development.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

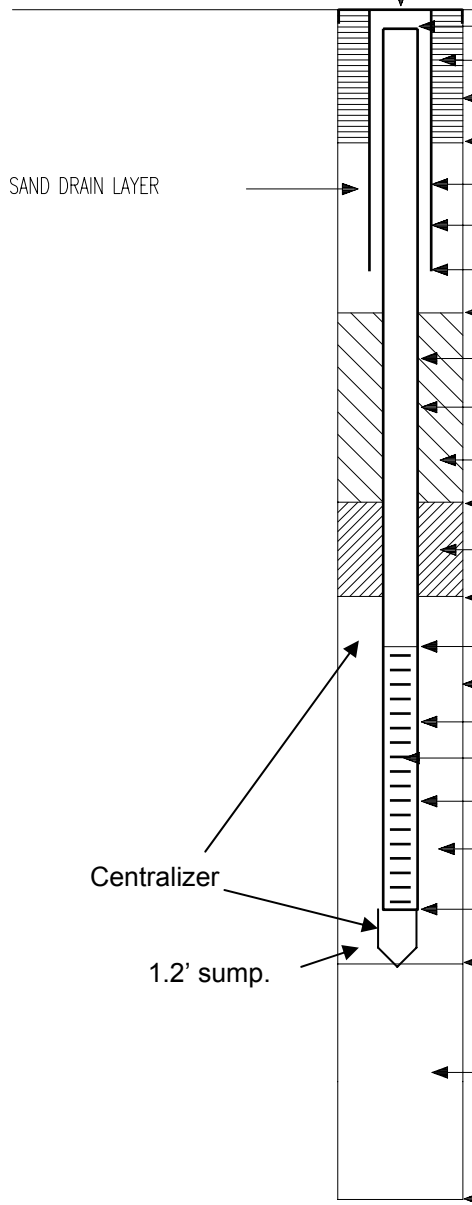
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-507D
CLIENT:	U.S EPA Region I	BORING NO:	SB-507D
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/20/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
BORING LOCATION:	605 Housatonic Ave.		
PAGE:	1 OF 1		

Elevation Top of Protective Casing 15.64 feet

Elevation Top of Riser Pipe 15.18 feet

GROUND ELEVATION 15.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)		0.4'
TYPE OF SURFACE SEAL		Cement
DIA. SURFACE SEAL BGS (In.)		24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		0.5'
I.D. OF PROTECTIVE CASING (In.)		4"
TYPE OF PROTECTIVE CASING		Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		4.0'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE		PVC
TYPE OF BACKFILL AROUND RISER PIPE		Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)		26.0'
TYPE OF SEAL		Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)		34.4'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		37.8'
DIAMETER OF BOREHOLE (In.)		4"
TYPE OF PERVIOUS SECTION		PVC
TYPE OF OPENINGS		0.010"
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		42.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)		44.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		Bentonite Chips
END OF BORING		45.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

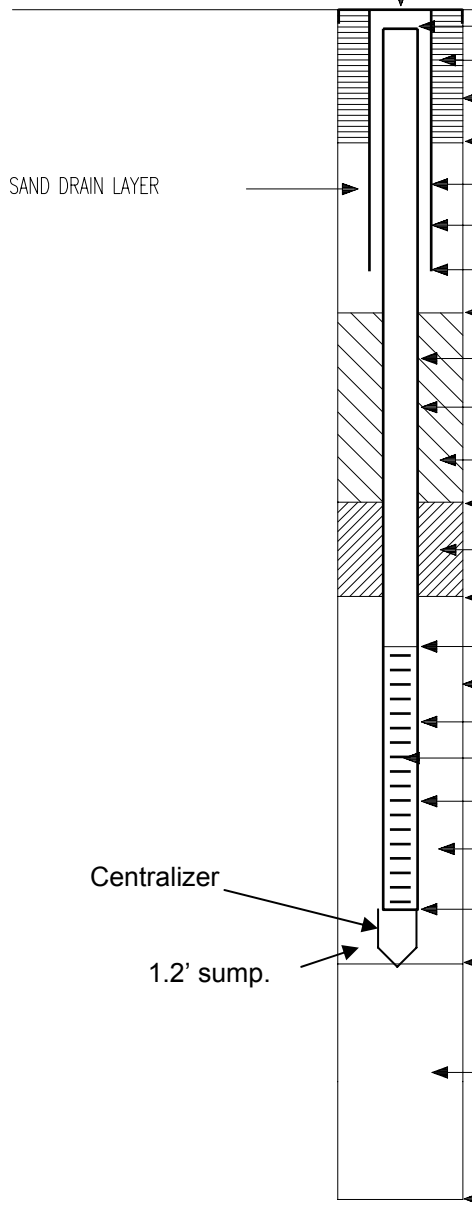
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-507S
CLIENT:	U.S EPA Region I	BORING NO:	SB-507S
CONTRACTOR:	ADT	BORING LOCATION:	605 Housatonic Ave.
DRILLER:	Jim Philbin		
LOGGED BY:	J. Lambert	DATE:	10/03
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.65 feet

Elevation Top of Riser Pipe 15.35 feet

GROUND ELEVATION 15.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)		0.4'
TYPE OF SURFACE SEAL		Concrete pad
DIA. SURFACE SEAL BGS (In.)		24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		0.5'
I.D. OF PROTECTIVE CASING (In.)		4"
TYPE OF PROTECTIVE CASING		Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		5.0'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE		PVC
TYPE OF BACKFILL AROUND RISER PIPE		N/A
DEPTH TOP OF SEAL (Ft.)		3.0'
TYPE OF SEAL		Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)		8.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		10.8'
DIAMETER OF BOREHOLE (In.)		4"
TYPE OF PERVIOUS SECTION		PVC
TYPE OF OPENINGS		0.010"
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		20.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)		22.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		N/A
END OF BORING		22.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

Water Level = 12.5 ft.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

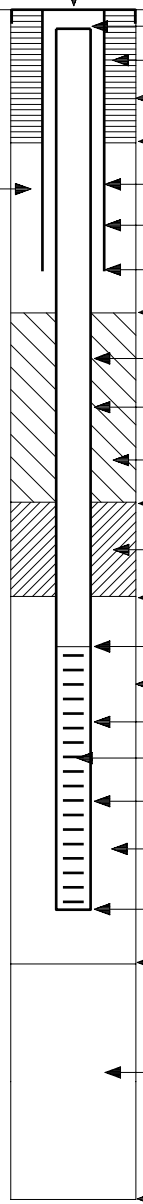
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-507SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-507SG
CONTRACTOR:	ADT	BORING LOCATION:	605 Housatonic Ave.
DRILLER:	Marques Larabie		
LOGGED BY:	J. Lambert	DATE:	10/3/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.74 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 15.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	15”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: ¾” O.D.:	1.125”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	5.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.4’
DIAMETER OF BOREHOLE (In.)	0-5’ = 5”, 5-7.4’ = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.:	1.5” O.D.: 1.875”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	7.4’
DEPTH BOTTOM OF FILTER PACK (Ft.)	7.4’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	7.4’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

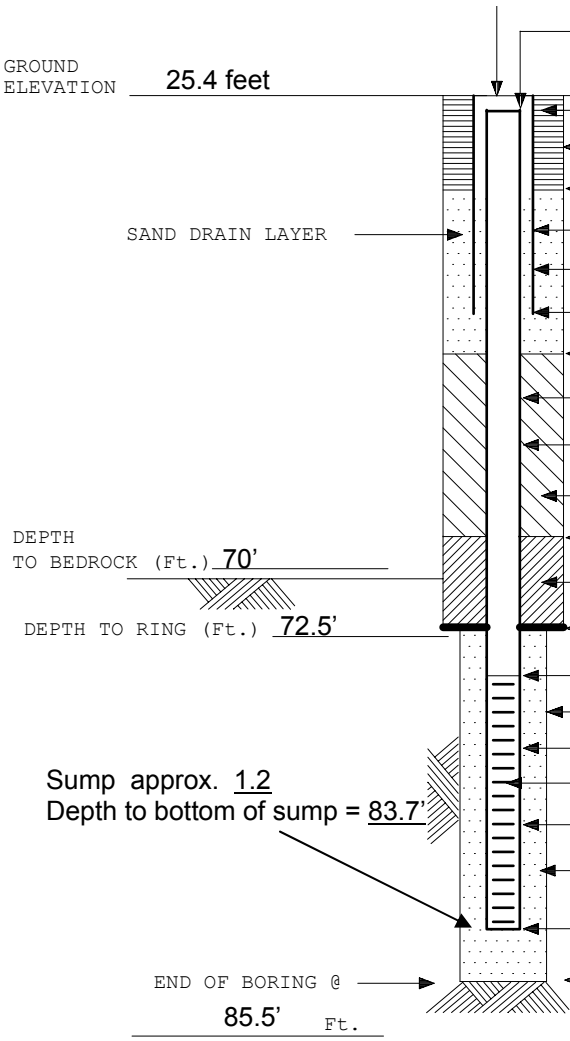
TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Ravmark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-508B
CLIENT: U.S EPA Region I
BORING NO: SB-508B
CONTRACTOR: ADT.
DRILLER: Eric R.
BORING LOCATION: Homestead Ave, In front of Resident # 85
LOGGED BY: C. Rousseau
DATE: 9/10/02
CHECKED BY: J. Danieli
DATE: 8/18/03

Elevation Top of Protective Casing 25.48 feet

Elevation Top of Riser Pipe 24.98 feet



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel Road Box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5'
RISER PIPE (In.) I.D.: 2.0"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite grout slurry
DEPTH TOP OF SEAL (Ft.)	70'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	72.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	73.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.020"
PERVIOUS SECTION (In.) I.D.: 2.0"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	N/A
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	82.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	85.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

TtNUS form 0060

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

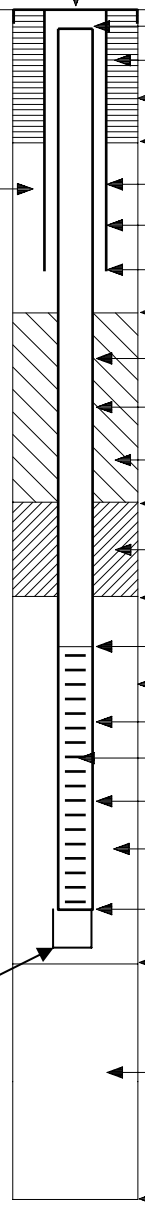
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-508D
CLIENT:	U.S EPA Region I	BORING NO:	SB-508D
CONTRACTOR:	ADT	BORING LOCATION:	Homestead Ave. in front of #93 Homestead Ave.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	9/24/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 25.29 feet

Elevation Top of Riser Pipe 24.71 feet

GROUND ELEVATION 25.3 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	22"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.5'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Slurry
DEPTH TOP OF SEAL (Ft.)	56.2'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	59.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	62'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	67'
DEPTH BOTTOM OF FILTER PACK (Ft.)	68'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	68'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

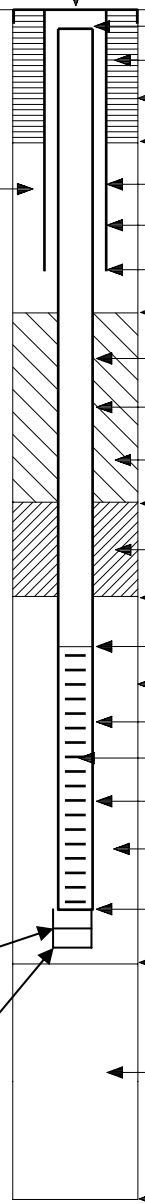
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-508S
CLIENT:	U.S EPA Region I	BORING NO:	SB-508S
CONTRACTOR:	ADT	BORING LOCATION:	In front of # 91 Homestead Ave. resident
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	9/25/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 25.21 feet

Elevation Top of Riser Pipe 24.44 feet

GROUND ELEVATION 25.2 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	19"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	17'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	19'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	29'
DEPTH BOTTOM OF FILTER PACK (Ft.)	30'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	30'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

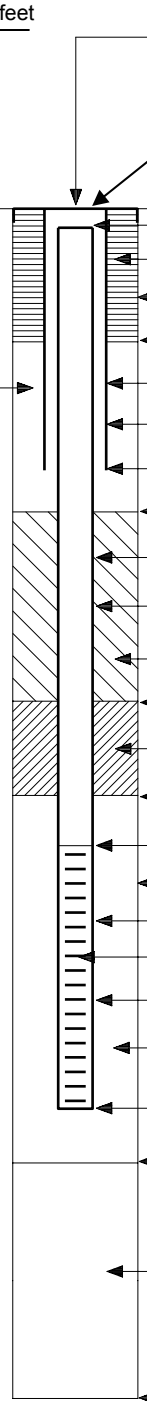
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-508SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-508SG
CONTRACTOR:	ADT	BORING LOCATION:	85 Homestead Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/6/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 25.32 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 25.4 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.7'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.5'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.5'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

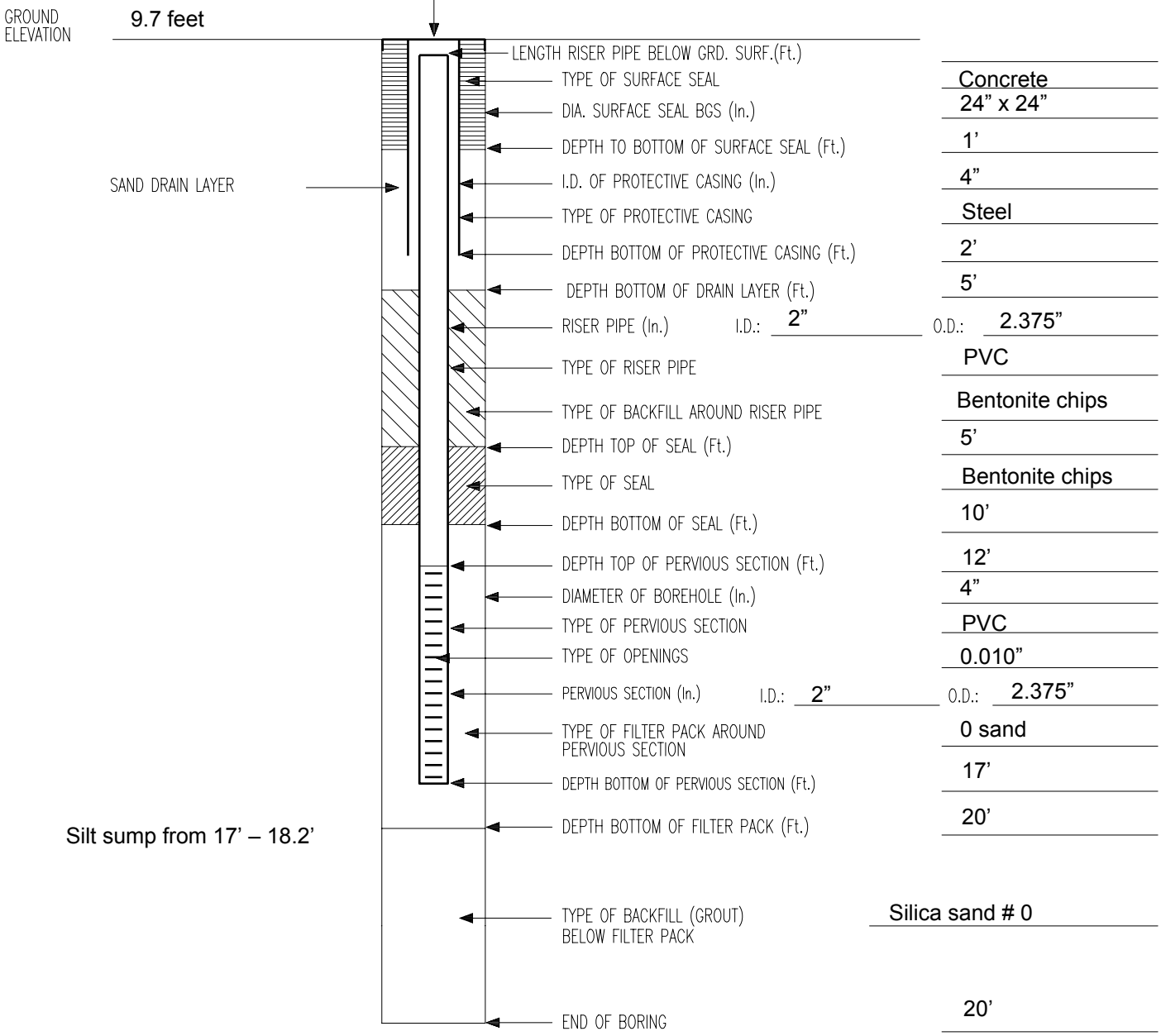
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-509M
CLIENT:	U.S EPA Region I	BORING NO:	SB-509M
CONTRACTOR:	ADT	BORING LOCATION:	Behind Marshalls Dept. store by fence.
DRILLER:	Jim Philbin		
LOGGED BY:	Bob Balkovec	DATE:	9/5/02
CHECKED BY:	J. Danieli	DATE:	8/18/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.74 feet

Elevation Top of Riser Pipe 9.39 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	24" x 24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite chips
DEPTH TOP OF SEAL (Ft.)	5'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	10'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	12'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	0 sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	17'
DEPTH BOTTOM OF FILTER PACK (Ft.)	20'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Silica sand # 0
END OF BORING	20'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

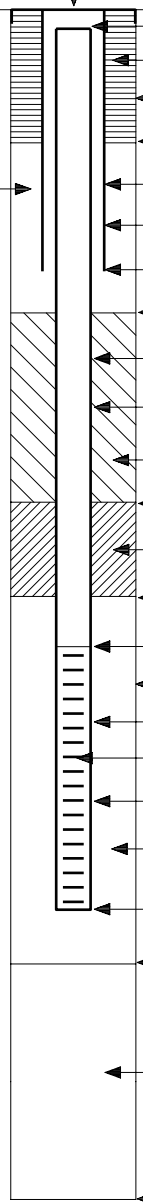
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-510M
CLIENT:	U.S EPA Region I	BORING NO:	SB-510M
CONTRACTOR:	ADT	BORING LOCATION:	Behind Marshalls, under billboard
DRILLER:	Jim Philbin		
LOGGED BY:	Bob Balkovec	DATE:	9/6/02
CHECKED BY:	J. Danieli	DATE:	8/18/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.36 feet

Elevation Top of Riser Pipe 9.09 feet

GROUND ELEVATION 9.2 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	12" x 12"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite chips
DEPTH TOP OF SEAL (Ft.)	5'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	17'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	19.3'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 0 silica sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	24.3'
DEPTH BOTTOM OF FILTER PACK (Ft.)	26'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	# 0 silica sand
END OF BORING	26'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-511M
CLIENT:	U.S EPA Region I	BORING NO:	SB-511M
CONTRACTOR:	ADT	DRILLER:	Jim Philbin & Les Darrow
LOGGED BY:	J. Lambert	DATE:	9/10/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

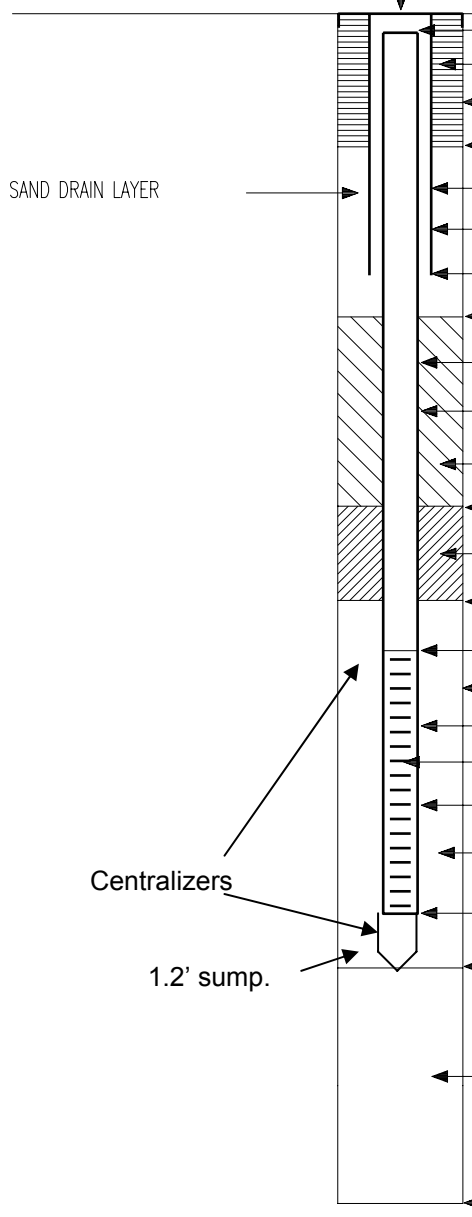
BORING LOCATION: Bally's parking lot –Rte. 95 side 2 parking spaces r. of storm drain

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.66 feet

Elevation Top of Riser Pipe 9.17 feet

GROUND ELEVATION 9.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)		0.2'
TYPE OF SURFACE SEAL		Bentonite cement
DIA. SURFACE SEAL BGS (In.)		24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		1.5'
I.D. OF PROTECTIVE CASING (In.)		4"
TYPE OF PROTECTIVE CASING		Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		3.9'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE		PVC
TYPE OF BACKFILL AROUND RISER PIPE		Bentonite Chips
DEPTH TOP OF SEAL (Ft.)		N/A
TYPE OF SEAL		Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)		16.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		18.8'
DIAMETER OF BOREHOLE (In.)		0-14 = 5" 14-25 = 4"
TYPE OF PERVIOUS SECTION		PVC
TYPE OF OPENINGS		0.010"
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		23.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)		25.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		N/A
END OF BORING		25.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-512M
CLIENT:	U.S EPA Region I	BORING NO:	SB-512M
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/12/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

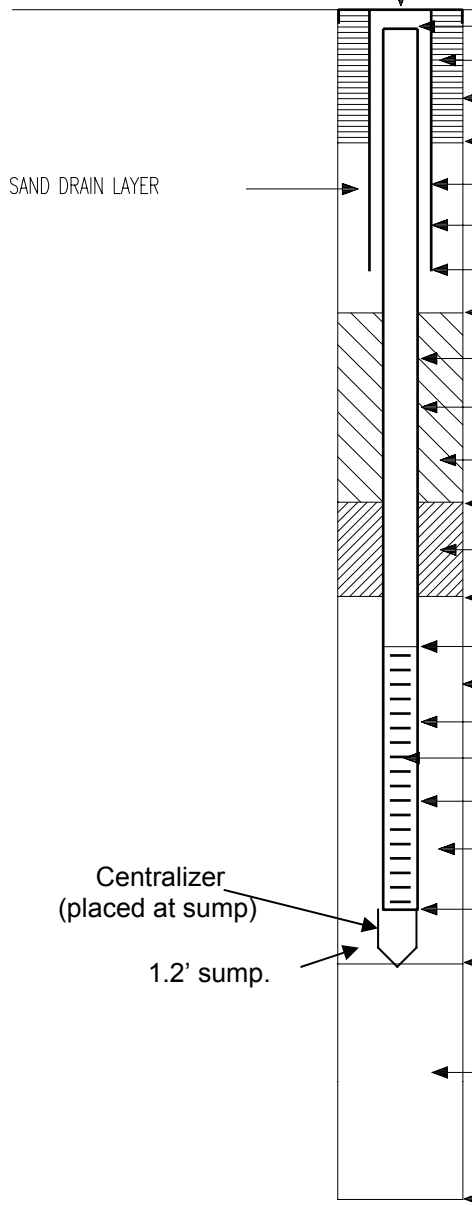
BORING LOCATION: Next to curb of entertainment cinemas parking lot.

PAGE: 1 OF 1

Elevation Top of Protective Casing 11 feet

Elevation Top of Riser Pipe 10.61 feet

GROUND ELEVATION 11 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.2'
TYPE OF SURFACE SEAL	Bentonite cement
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	7.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	7.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	19.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	21.6'
DIAMETER OF BOREHOLE (In.)	0-14'= 5" 14-28' = 4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	26.6'
DEPTH BOTTOM OF FILTER PACK (Ft.)	27.8'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	28'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

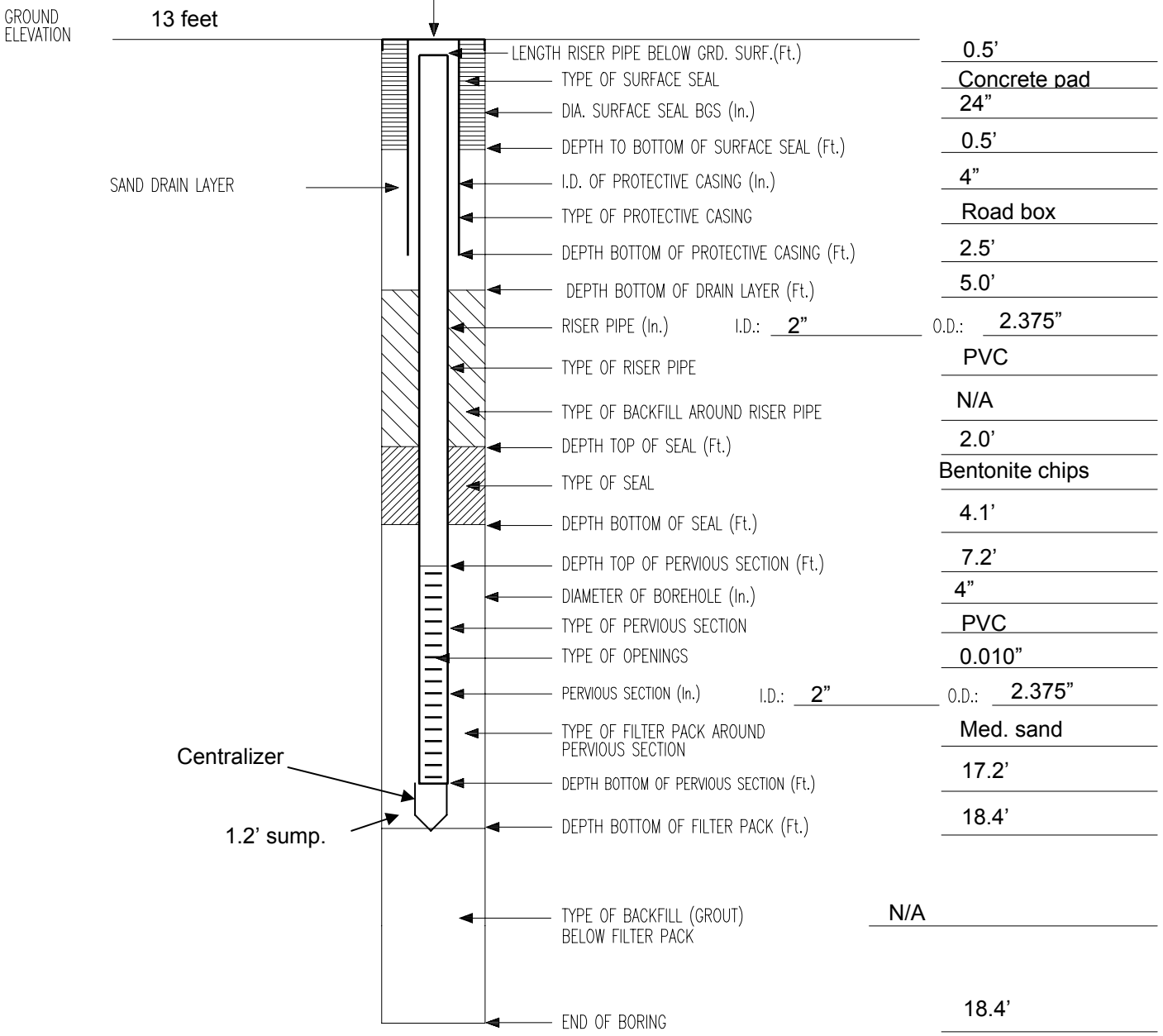
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-513S
CLIENT:	U.S EPA Region I	BORING NO:	SB-513S
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/18/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

BORING LOCATION: Triangle on Ferry Blvd. across From pool & spa (444 Ferry Blvd.)

PAGE: 1 OF 1

Elevation Top of Protective Casing 13 feet

Elevation Top of Riser Pipe 12.50 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	5.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4.1'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.2'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	17.2'
DEPTH BOTTOM OF FILTER PACK (Ft.)	18.4'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	18.4'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

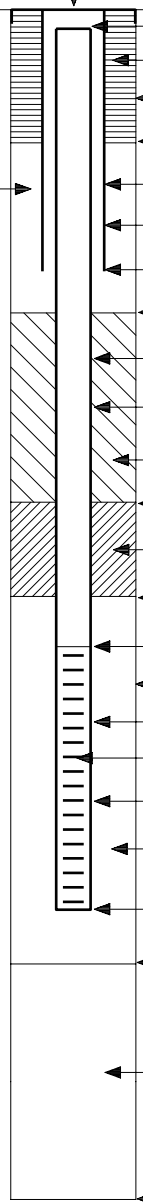
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-513SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-513SG
CONTRACTOR:	ADT	BORING LOCATION:	Ferry Blvd. Triangle across from 494 Ferry Blvd.
DRILLER:	Marques Lambie		
LOGGED BY:	J. Lambert	DATE:	10/1/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 13.23 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 13.2 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: ¾” O.D.:	1.125”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	6.0’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.8’
DIAMETER OF BOREHOLE (In.)	0-4’ = 5”, 5-7.9’ = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 1.5” O.D.:	1.875”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	7.9’
DEPTH BOTTOM OF FILTER PACK (Ft.)	7.9’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	7.9’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

Note: See page 83 of rig 2 log 3 for details of previous section.

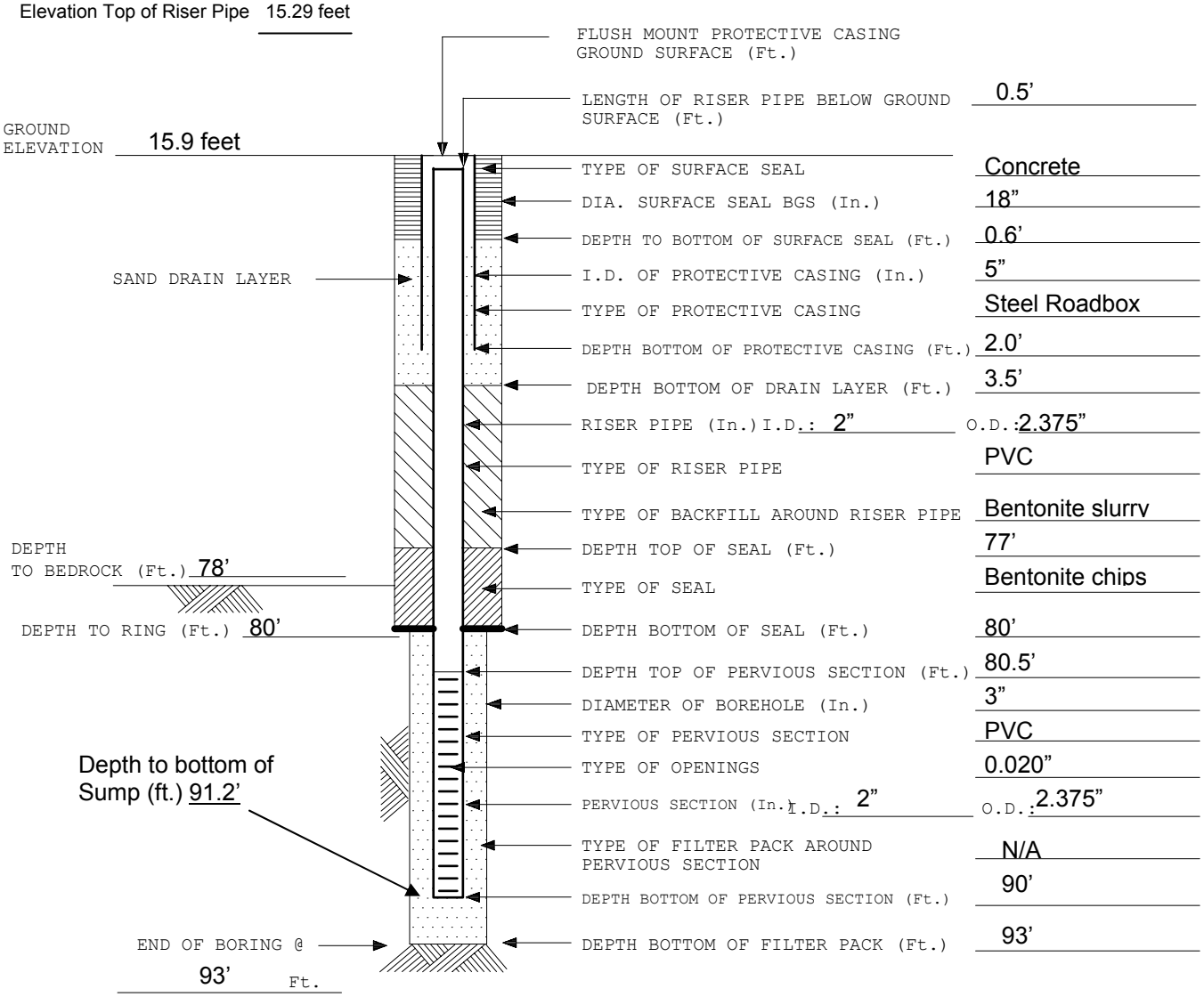
TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-514B
CLIENT: U.S EPA Region I
BORING NO: SB-514B
CONTRACTOR: ADT
DRILLER: Les Darrow
BORING LOCATION: DOT Island Intersection of Minor St. and Ferry Blvd.
LOGGED BY: C. Rousseau
DATE: 9/20/02 & 9/23/02
CHECKED BY: J. Danieli, D. Hartigan
DATE: 8/18/03, 9/22/03

Elevation Top of Protective Casing 16.06 feet

Elevation Top of Riser Pipe 15.29 feet



GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-514D
CLIENT:	U.S EPA Region I	BORING NO:	SB-514D
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	C. Rosseau	DATE:	10/8/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

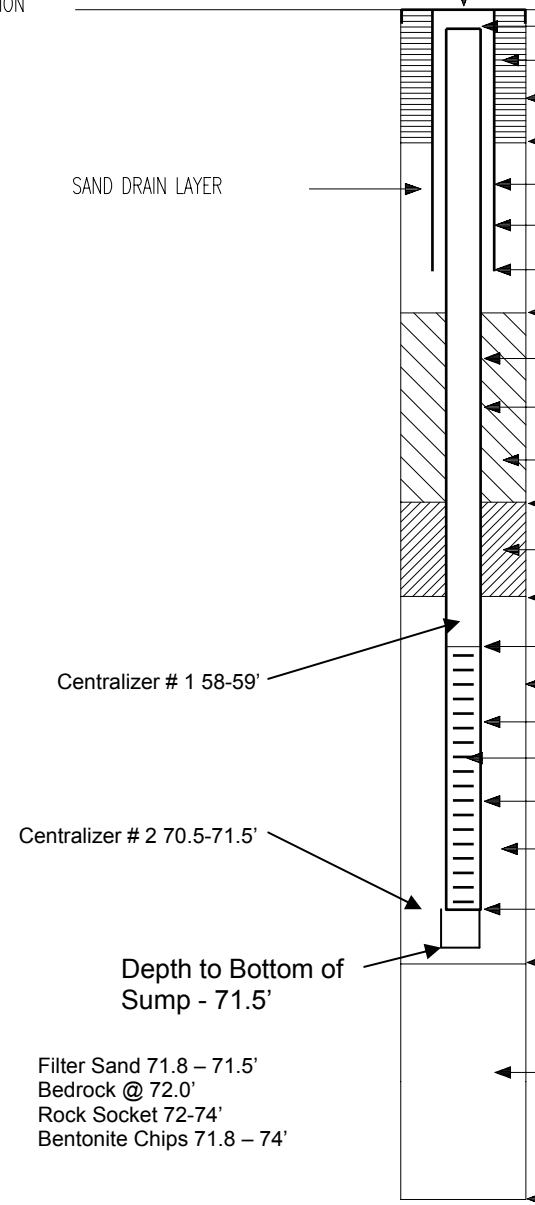
BORING LOCATION: Between Homestead Ave. & Minor St. in the island.

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.31 feet

Elevation Top of Riser Pipe 15.48 feet

GROUND ELEVATION 16.2 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.5'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Slurry Mix
DEPTH TOP OF SEAL (Ft.)	54.7'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	57.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	60.5'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	70.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	71.8'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Bentonite Chips
END OF BORING	74.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

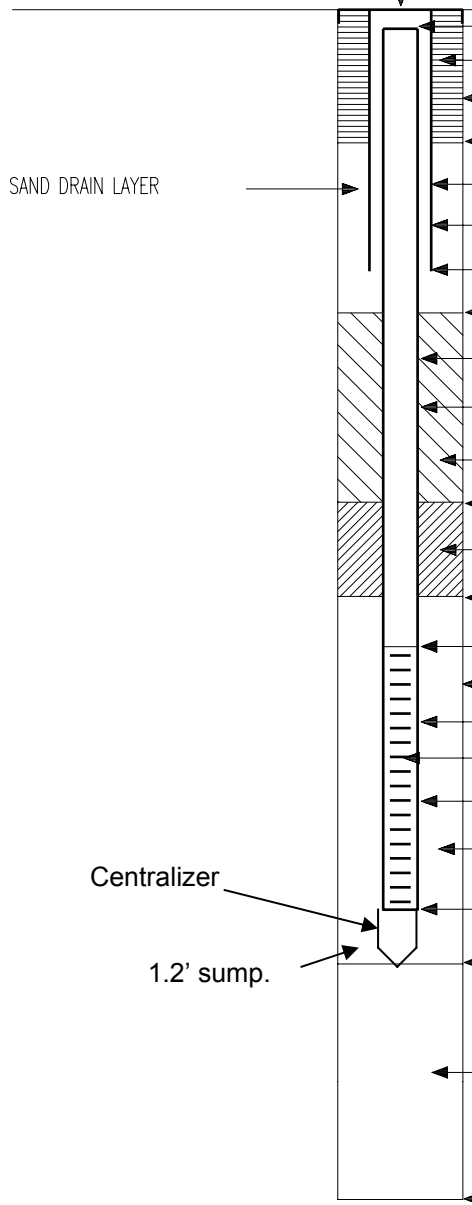
PROJECT NAME:	Ravmark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-514S
CLIENT:	U.S EPA Region I	BORING NO:	SB-514S
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/18/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
BORING LOCATION:	Ferry Blvd across from Minor Ave.		

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.35 feet

Elevation Top of Riser Pipe 15 feet

GROUND ELEVATION 15.4 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.3'
TYPE OF SURFACE SEAL	Cement Pad
DIA. SURFACE SEAL BGS (In.)	20"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.8'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.8'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4.7'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.3'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	17.1'
DEPTH BOTTOM OF FILTER PACK (Ft.)	18.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	18.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

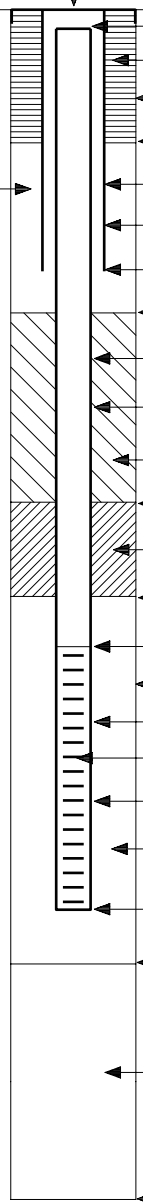
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-514SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-514SG
CONTRACTOR:	ADT	BORING LOCATION:	Ferry Blvd. Across from Minor Ave.
DRILLER:	Marques Lambie		
LOGGED BY:	J. Lambert	DATE:	10/2/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.79 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 15.6 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: ¾” O.D.:	1.125”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	6.4’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.9’
DIAMETER OF BOREHOLE (In.)	0-2.5’ = 5”, 2.5-8’ = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 1.5” O.D.:	1.875”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0’
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

Note: See page 83 of rig 2 log 3 for pervious section details.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-515S
CLIENT:	U.S EPA Region I	BORING NO:	SB-515S
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/19/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

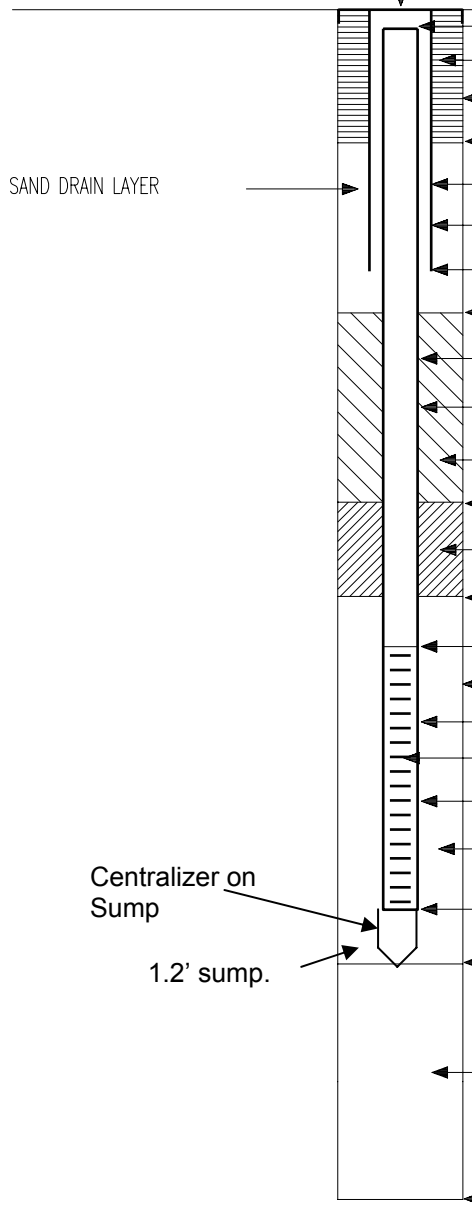
BORING LOCATION: Across Ferry Blvd from Schocks Auto Body- 350 Ferry Blvd.

PAGE: 1 OF 1

Elevation Top of Protective Casing 14.99 feet

Elevation Top of Riser Pipe 14.62 feet

GROUND ELEVATION 14.9 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.3'
TYPE OF SURFACE SEAL	Cement Pad
DIA. SURFACE SEAL BGS (In.)	24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	5.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.3'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	17.3'
DEPTH BOTTOM OF FILTER PACK (Ft.)	18.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	18.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

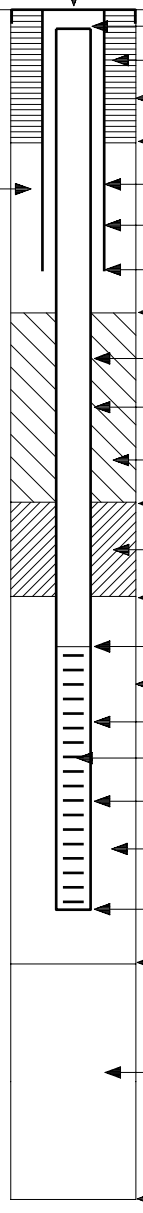
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-515SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-515SG
CONTRACTOR:	ADT	BORING LOCATION:	350 Ferry Blvd.
DRILLER:	Marques Larabie		
LOGGED BY:	J. Lambert	DATE:	10/1/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 14.93 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 14.9 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.5’
RISER PIPE (In.) I.D.: ¾” O.D.:	1.125”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.5’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	6.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.9’
DIAMETER OF BOREHOLE (In.)	0-5’ = 5”, 5-8’ = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 1.5” O.D.:	1.875”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0’
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

Note: See page 83 of rig 2 log 3 for pervious section details.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

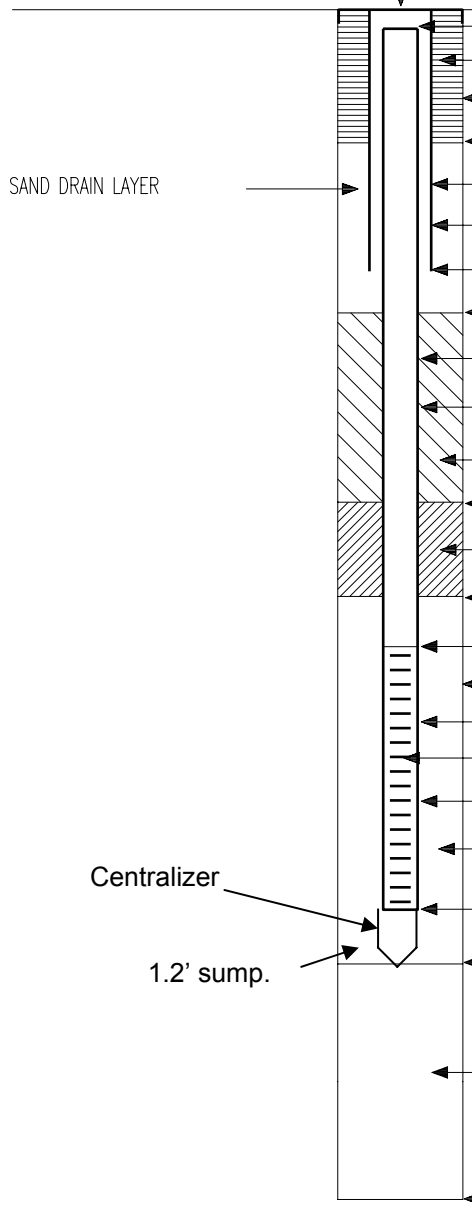
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-516M
CLIENT:	U.S EPA Region I	BORING NO:	SB-516M
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/24/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03
BORING LOCATION:	Back side of Entertainment cinemas.		

PAGE: 1 OF 1

Elevation Top of Protective Casing 9.75 feet

Elevation Top of Riser Pipe 9.28 feet

GROUND ELEVATION 9.8 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)		0.5'
TYPE OF SURFACE SEAL		Concrete Pad
DIA. SURFACE SEAL BGS (In.)		24"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		0.5'
I.D. OF PROTECTIVE CASING (In.)		4"
TYPE OF PROTECTIVE CASING		Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		5.0'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE		PVC
TYPE OF BACKFILL AROUND RISER PIPE		N/A
DEPTH TOP OF SEAL (Ft.)		5.0'
TYPE OF SEAL		Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)		17.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		19.8'
DIAMETER OF BOREHOLE (In.)		0-14' = 5", 14-26' = 4"
TYPE OF PERVIOUS SECTION		PVC
TYPE OF OPENINGS		0.010"
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		24.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)		26.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		N/A
END OF BORING		26.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

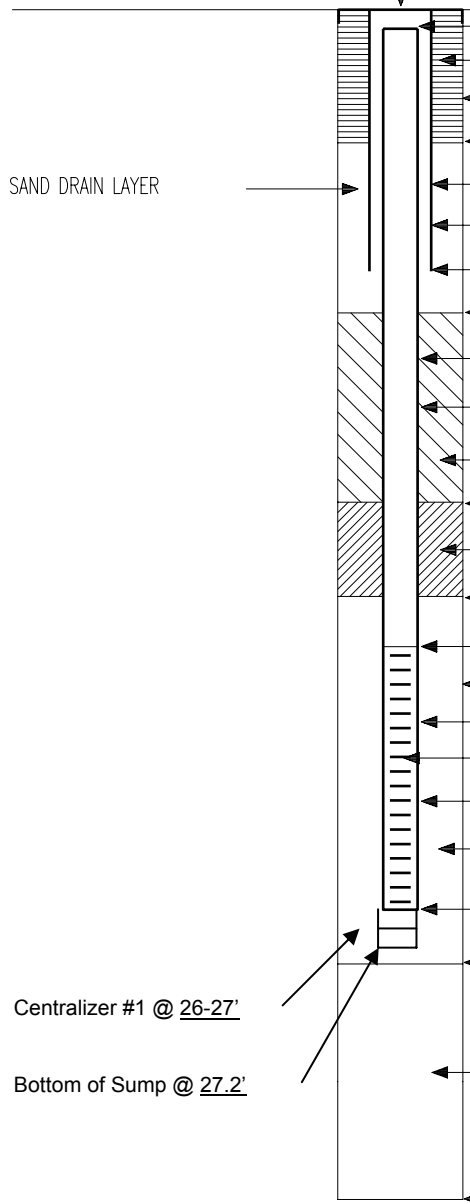
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-517S
CLIENT:	U.S EPA Region I	BORING NO:	SB-517S
CONTRACTOR:	ADT	BORING LOCATION:	Between Ferry Blvd. and off Ramp from 95
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/17/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/22/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 21.05 feet

Elevation Top of Riser Pipe 20.63 feet

GROUND ELEVATION 21 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	14.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	16.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	26'
DEPTH BOTTOM OF FILTER PACK (Ft.)	27'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural
END OF BORING	27'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

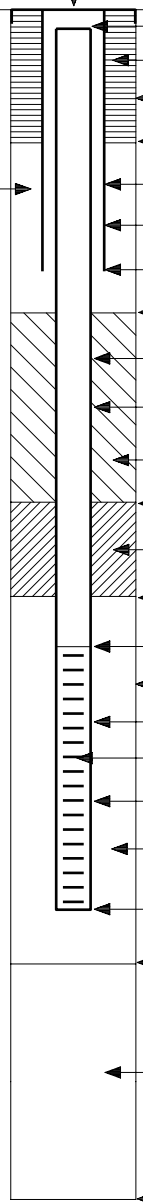
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-517SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-517SG
CONTRACTOR:	ADT	BORING LOCATION:	Between Ferry Blvd. and 95 off ramp.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/18/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 21.35 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 21.4 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’		
TYPE OF SURFACE SEAL	Concrete		
DIA. SURFACE SEAL BGS (In.)	21”		
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8’		
I.D. OF PROTECTIVE CASING (In.)	5.0”		
TYPE OF PROTECTIVE CASING	Steel Roadbox		
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0’		
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’		
RISER PIPE (In.)	I.D.: ¾”	O.D.:	1.125”
TYPE OF RISER PIPE	PVC		
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite chips		
DEPTH TOP OF SEAL (Ft.)	3.0’		
TYPE OF SEAL	Bentonite chips		
DEPTH BOTTOM OF SEAL (Ft.)	6.5’		
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0’		
DIAMETER OF BOREHOLE (In.)	3.0’		
TYPE OF PERVIOUS SECTION	PVC		
TYPE OF OPENINGS	0.010”		
PERVIOUS SECTION (In.)	I.D.: 2.0”	O.D.:	2.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand		
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0’		
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0’		
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Filter sand		
END OF BORING	8.0’		

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

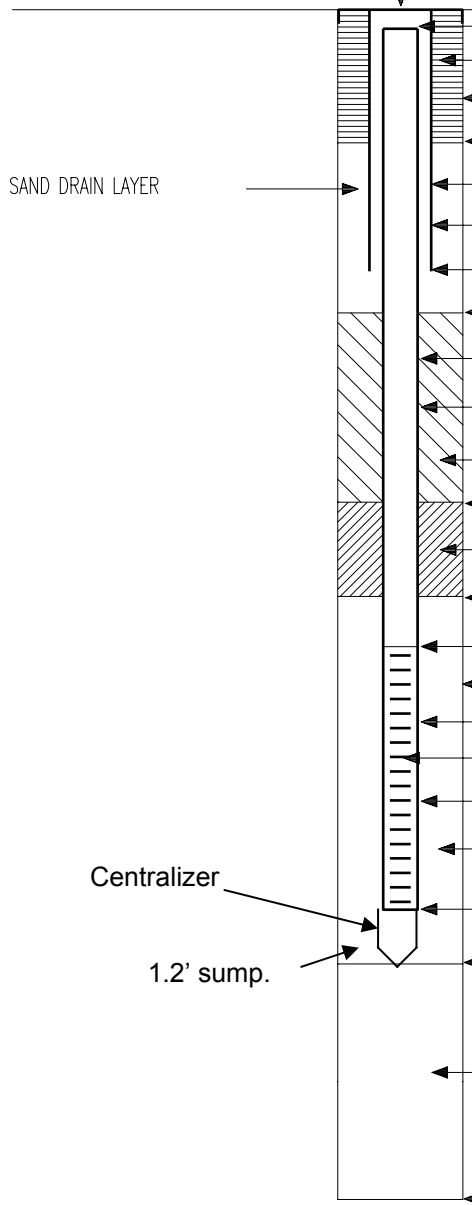
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-518S
CLIENT:	U.S EPA Region I	BORING NO:	SB-518S
CONTRACTOR:	ADT	BORING LOCATION:	Across from 570 Ferry Blvd.
DRILLER:	Jim Philbin		
LOGGED BY:	J. Lambert	DATE:	9/25/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 20.26 feet

Elevation Top of Riser Pipe 19.78 feet

GROUND ELEVATION 20.1 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)		0.4'
TYPE OF SURFACE SEAL		Concrete Pad
DIA. SURFACE SEAL BGS (In.)		18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		1.5'
I.D. OF PROTECTIVE CASING (In.)		4"
TYPE OF PROTECTIVE CASING		Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		2.5'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE		PVC
TYPE OF BACKFILL AROUND RISER PIPE		Bentonite Chips
DEPTH TOP OF SEAL (Ft.)		2.5'
TYPE OF SEAL		Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)		4.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		6.4'
DIAMETER OF BOREHOLE (In.)		4"
TYPE OF PERVIOUS SECTION		PVC
TYPE OF OPENINGS		0.010"
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		16.4'
DEPTH BOTTOM OF FILTER PACK (Ft.)		18.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		N/A
END OF BORING		18.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

Water Level 8.2 ft. in MW-202S

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

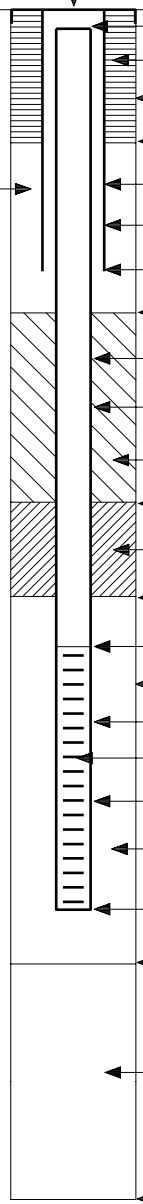
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-518SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-518SG
CONTRACTOR:	ADT	BORING LOCATION:	Across from 570 Ferry Blvd.
DRILLER:	Marques Larabie		
LOGGED BY:	J. Lambert	DATE:	10/2/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 20.48 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 20.3 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: ¾” O.D.:	1.125”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	5.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.5’
DIAMETER OF BOREHOLE (In.)	0-4’ = 5”, 5-8’ = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.:	2.0” O.D.: 2.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	7.5’
DEPTH BOTTOM OF FILTER PACK (Ft.)	7.5’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	7.5’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

Note: See page 83 of rig 2 log 3 for details on pervious section.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

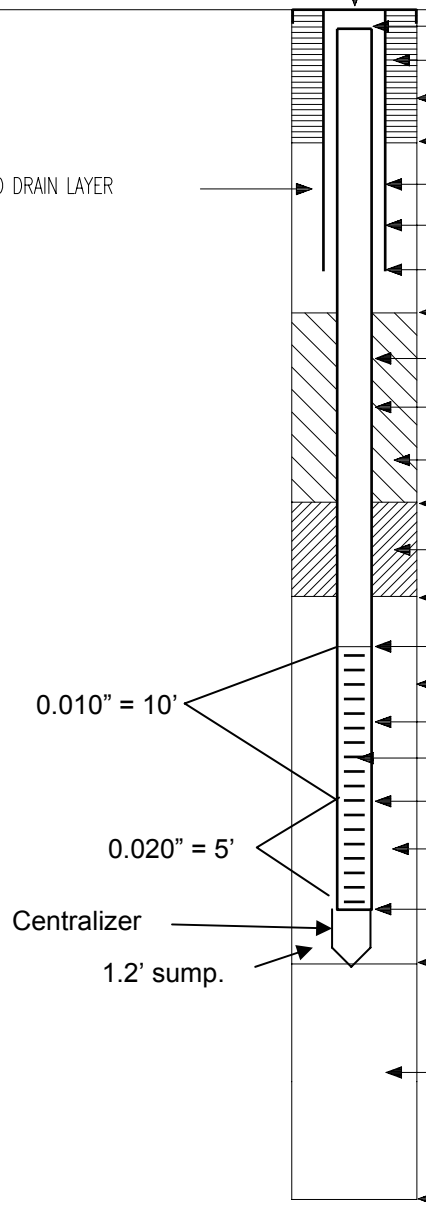
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-519S
CLIENT:	U.S EPA Region I	BORING NO:	SB-519S
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/26/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03
BORING LOCATION:	Intersection of Ferry Blvd. and underpass leading North		

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.69 feet

Elevation Top of Riser Pipe 16.27 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete Pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.7'*
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010", 0.020"*
PERVIOUS SECTION (In.) I.D.: 2" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	20.7'*
DEPTH BOTTOM OF FILTER PACK (Ft.)	22.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	22.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

* Pervious section has schedule 10 screen (10 ft.)
Above schedule 20 screen (5 ft.)

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-519SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-519SG
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	C. Rousseau	DATE:	10/15/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

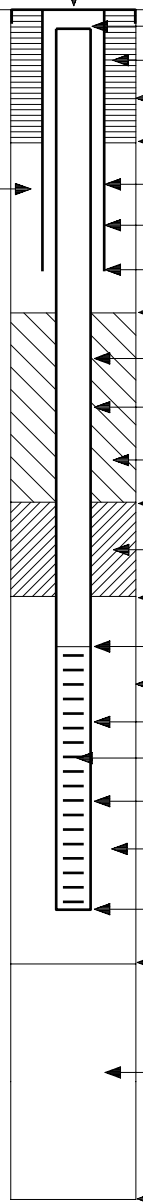
BORING LOCATION: Intersection of Ferry Blvd. & underpass leading North

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.69 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 16.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6’
I.D. OF PROTECTIVE CASING (In.)	5.0”
TYPE OF PROTECTIVE CASING	Steel Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: 1.0” O.D.:	1.375”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite chips
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0’
DIAMETER OF BOREHOLE (In.)	3.0”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 2.0” O.D.:	2.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0’
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Filter sand
END OF BORING	8.5’

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

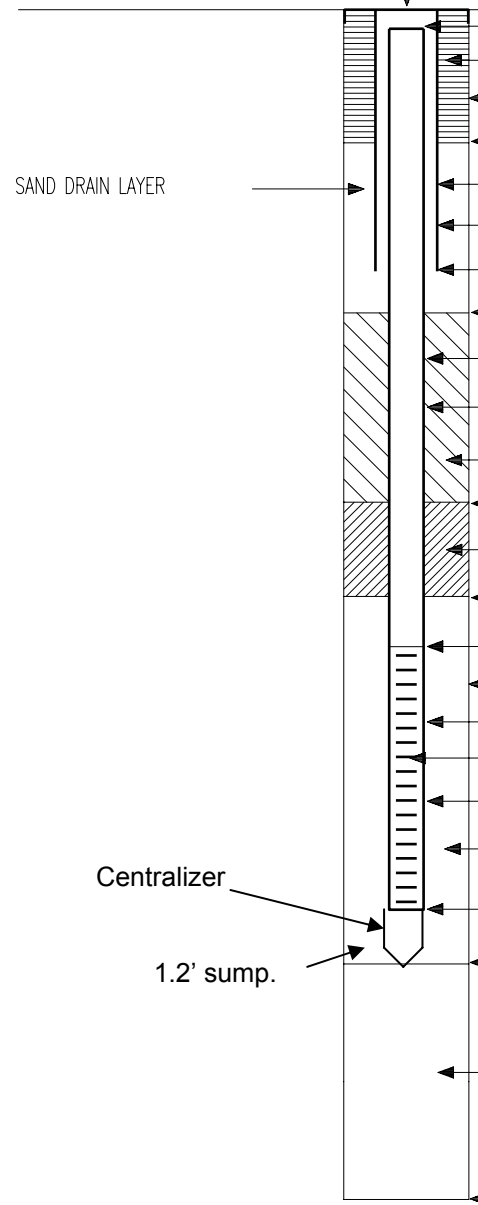
FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-520S
CLIENT:	U.S EPA Region I	BORING NO:	SB-520S
CONTRACTOR:	ADT	DRILLER:	Jim Philbin
LOGGED BY:	J. Lambert	DATE:	9/27/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03
BORING LOCATION:	Corner between East Broadway & Ferry Blvd.		
PAGE:	1 OF 1		

Elevation Top of Protective Casing 13.27 feet

Elevation Top of Riser Pipe 12.71 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)		0.5'
TYPE OF SURFACE SEAL		* Concrete Pad
DIA. SURFACE SEAL BGS (In.)		18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)		0.5'
I.D. OF PROTECTIVE CASING (In.)		4"
TYPE OF PROTECTIVE CASING		Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)		2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)		5.0'
RISER PIPE (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE		PVC
TYPE OF BACKFILL AROUND RISER PIPE		N/A
DEPTH TOP OF SEAL (Ft.)		5.0'
TYPE OF SEAL		Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)		9.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)		11.3'
DIAMETER OF BOREHOLE (In.)		4"
TYPE OF PERVIOUS SECTION		PVC
TYPE OF OPENINGS		0.010"
PERVIOUS SECTION (In.)	I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION		Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)		21.3'
DEPTH BOTTOM OF FILTER PACK (Ft.)		22.6'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK		N/A
END OF BORING		22.6'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

* pad composed of portland cement & sand, ran out of regular concrete.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

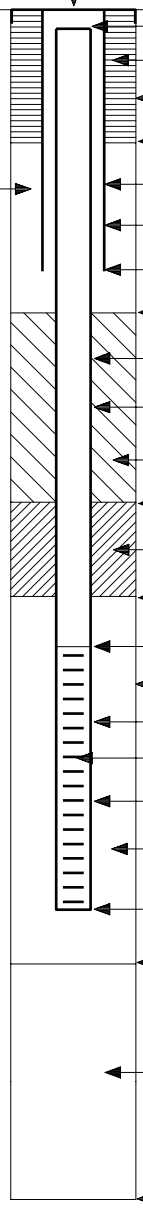
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-520SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-520SG
CONTRACTOR:	ADT	BORING LOCATION:	Corner between East Broadway and Ferry Blvd.
DRILLER:	Marques Lambie		
LOGGED BY:	J. Lambert	DATE:	10/2/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 13.39 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 13.4 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: ¾” O.D.:	1.125”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Granular bentonite
DEPTH BOTTOM OF SEAL (Ft.)	6.5’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.9’
DIAMETER OF BOREHOLE (In.)	0-5’ = 5”, 5-8’ = 3”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.:	2.0” O.D.: 2.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0’
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0’
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0’

Note: See page 83 of rig #2’s log 3 for pervious section details.

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

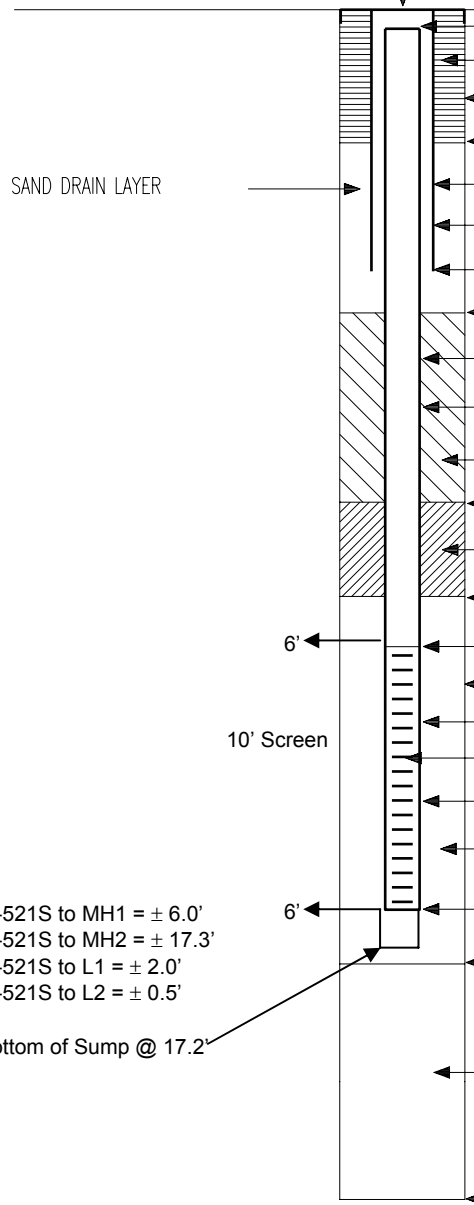
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-521S
CLIENT:	U.S EPA Region I	BORING NO:	SB-521S
CONTRACTOR:	ADT	BORING LOCATION:	Adjacent to Animal Shelter
DRILLER:	Les Darrow		Town of Stratford
LOGGED BY:	C. Rousseau	DATE:	10/2/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 12.61 feet

Elevation Top of Riser Pipe 12.10 feet

GROUND ELEVATION 12.6 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.7'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	5.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	16'
DEPTH BOTTOM OF FILTER PACK (Ft.)	17.2'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural
END OF BORING	17.2'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

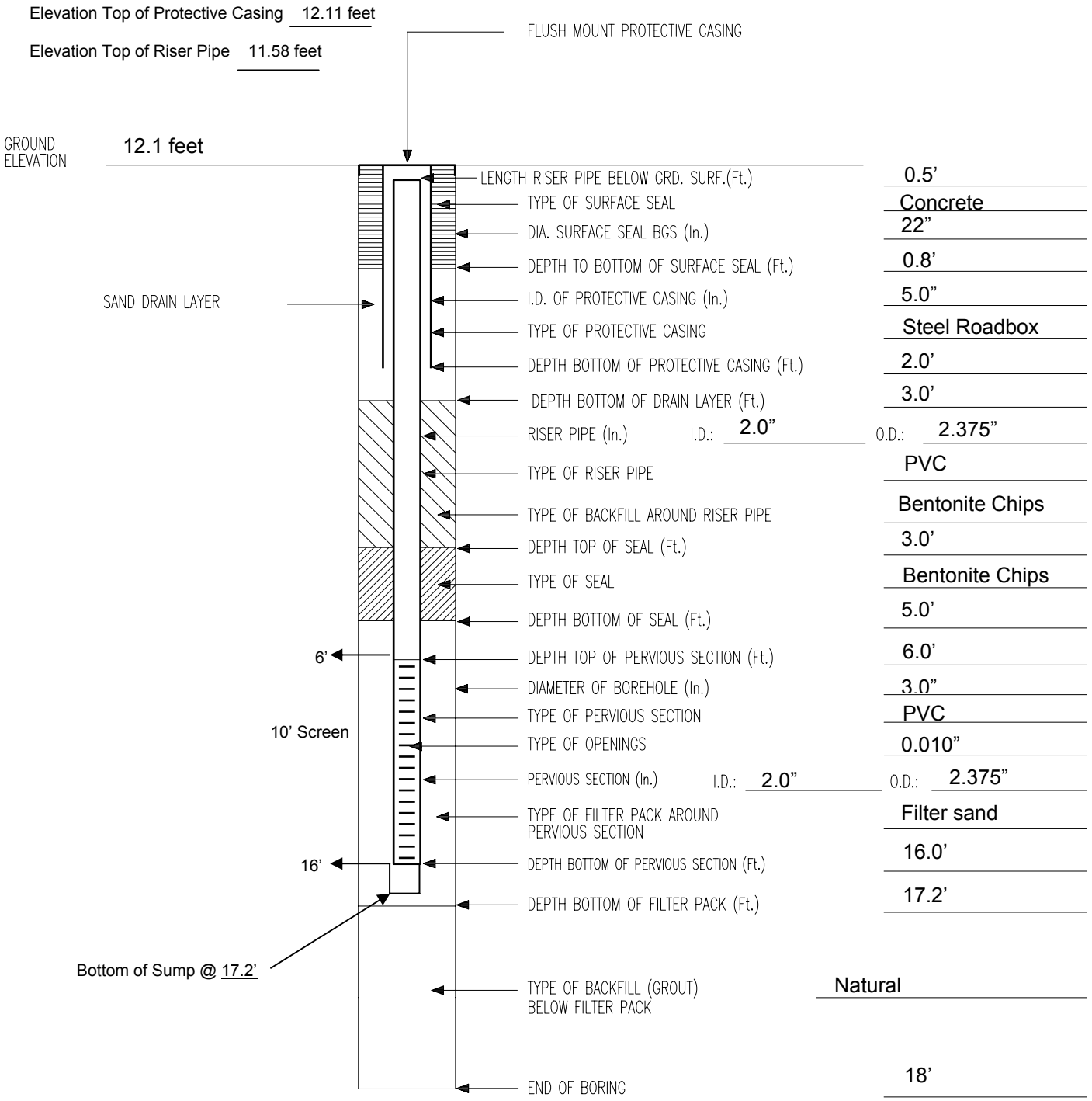
FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-522S
CLIENT:	U.S EPA Region I	BORING NO:	SB-522S
CONTRACTOR:	ADT	BORING LOCATION:	Hampford Research, Inc.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/3/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 12.11 feet

Elevation Top of Riser Pipe 11.58 feet



GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-523S
CLIENT:	U.S EPA Region I	BORING NO:	SB-523S
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	C. Rousseau	DATE:	10/21/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

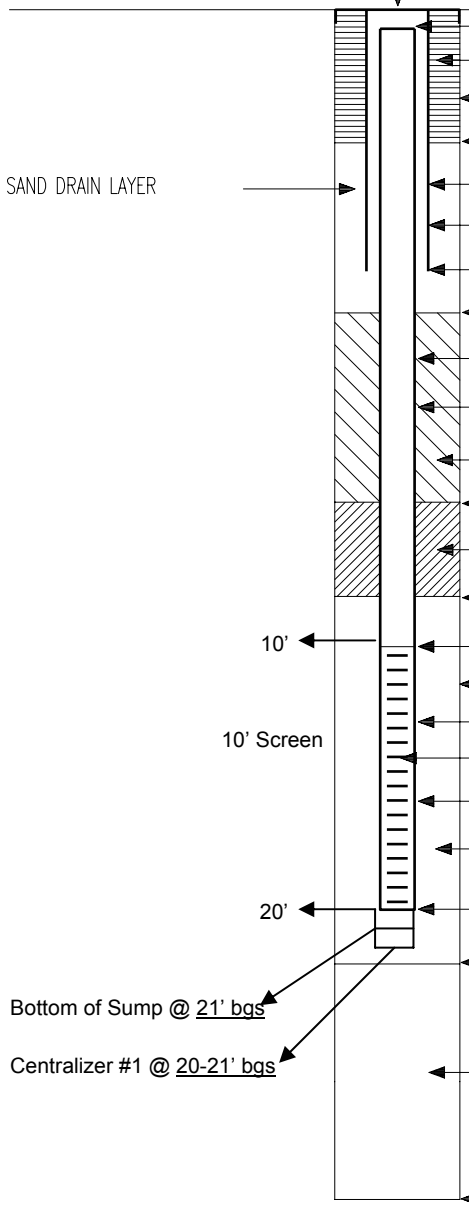
BORING LOCATION: Intersection of Minor and Housatonic Ave.

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.53 feet

Elevation Top of Riser Pipe 16.13 feet

GROUND ELEVATION 16.6 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	8.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	10.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	20.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	21.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural
END OF BORING	21.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

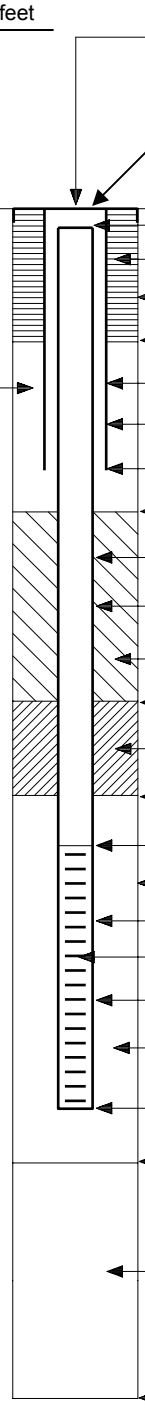
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-523SGD
CLIENT:	U.S EPA Region I	BORING NO:	SB-523SGD
CONTRACTOR:	ADT	BORING LOCATION:	Across from 113 Minor Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/6/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.34 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 16.3 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.9'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.9'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	10.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	10.5'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.:	2" O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	11.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	11.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	11.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

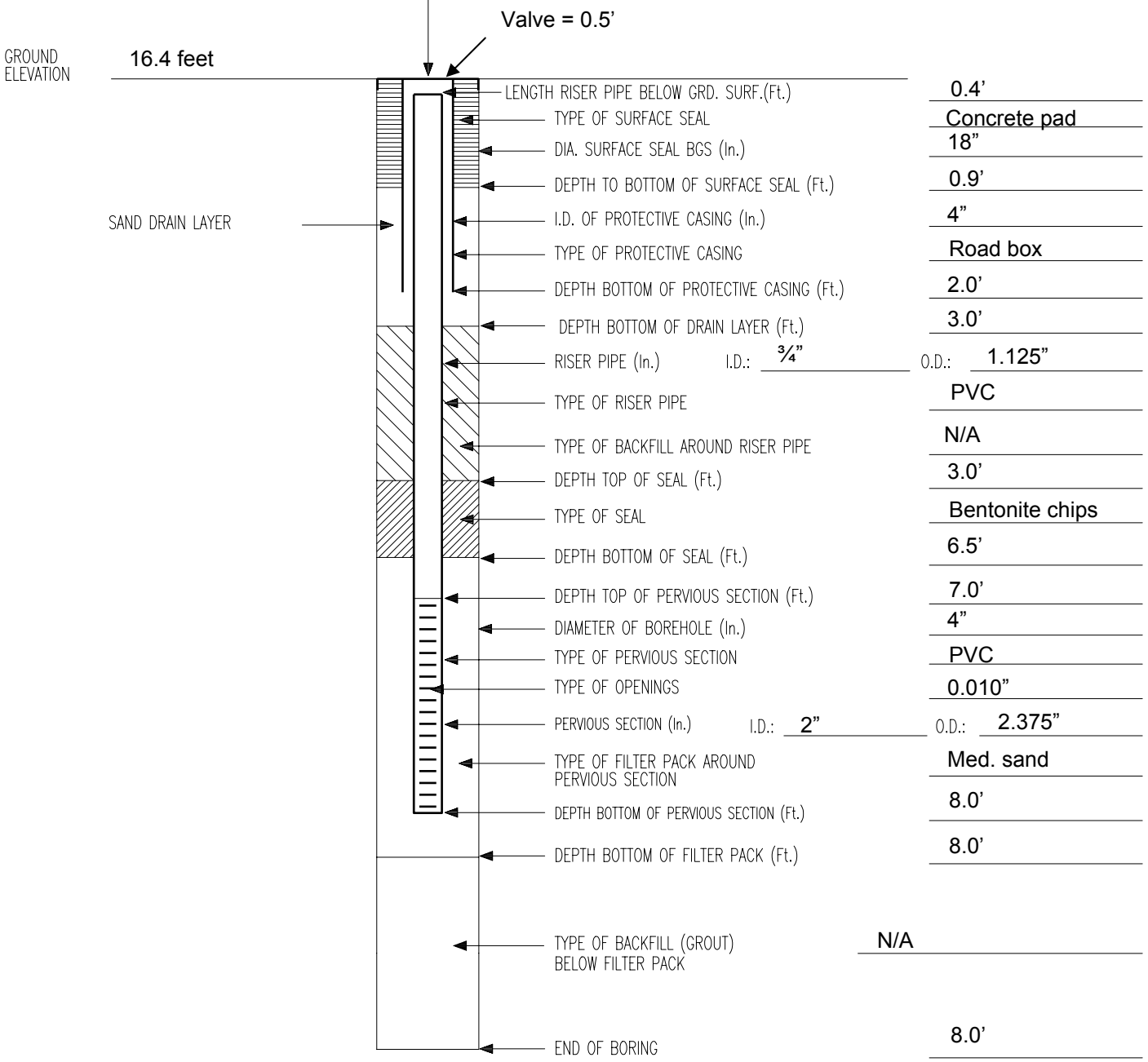
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-523SGM
CLIENT:	U.S EPA Region I	BORING NO:	SB-523SGM
CONTRACTOR:	ADT	BORING LOCATION:	Across from 113 Minor Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/6/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.34 feet

Elevation Top of Riser Pipe N/A



GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

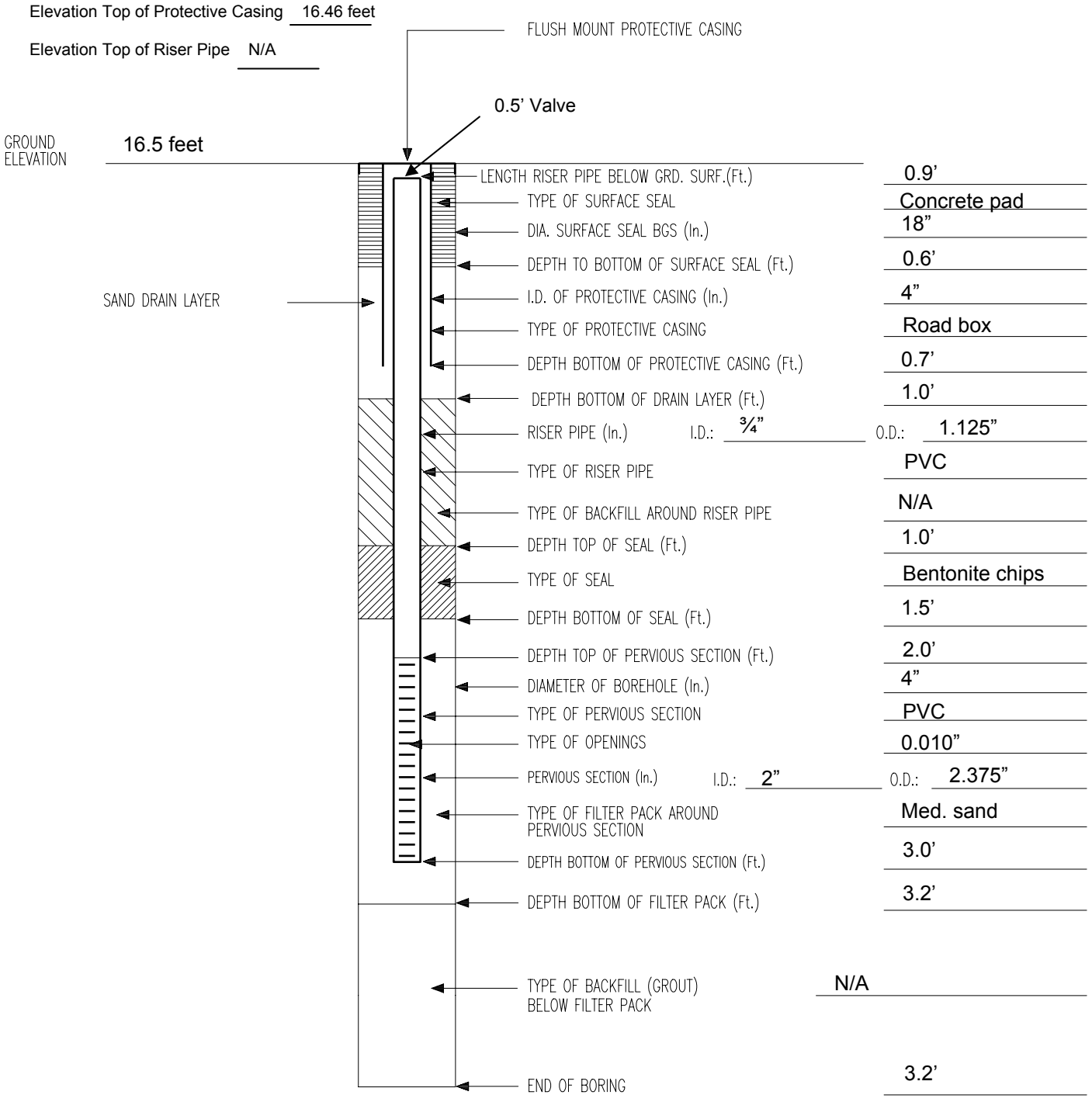
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-523SGS
CLIENT:	U.S EPA Region I	BORING NO:	SB-523SGS
CONTRACTOR:	ADT	BORING LOCATION:	Across from 113 Minor Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/6/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 16.46 feet

Elevation Top of Riser Pipe N/A



GENERAL NOTE:

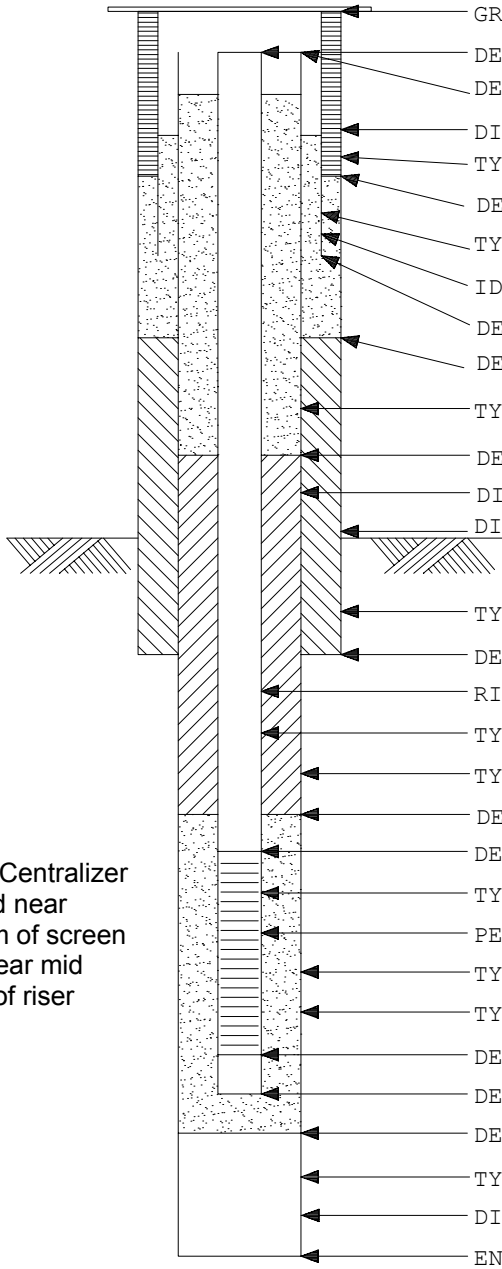
1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: Raymark OU2
PROJECT NO: N4236-0320
PROJECT LOCATION: Stratford, CT
WELL NO: MW-524B
CLIENT: U.S EPA Region I
BORING NO: SB-524B
CONTRACTOR: ADT
DRILLER: D. Walker, L. Darrow
BORING LOCATION: VFW Hall parking lot
LOGGED BY: J. Lambert
DATE: 10/21/02, 11/25/02
CHECKED BY: Tracy Dorgan
DATE: 9/11/03

RISER PIPE ELEVATION (Ft.) 15.32'
PROTECTIVE CASING ELEVATION (Ft.) 15.72'



GROUND ELEVATION (Ft.) 15.70'
DEPTH TOP OF RISER PIPE (Ft.) 0.5' BGS
DEPTH TOP OF OUTER CASING (Ft.) 0.5' BGS
DIAMETER OF SURFACE SEAL (In.) 34"
TYPE OF SURFACE SEAL Concrete Pad
DEPTH BOTTOM OF SURFACE SEAL (Ft.) 0.8' BGS
TYPE OF PROTECTIVE CASING Steel roadbox
ID OF PROTECTIVE CASING (In.) 12"
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.) 1.0' BGS
DEPTH BOTTOM OF DRAIN LAYER (Ft.) 4.0' BGS
TYPE OF INNER BACKFILL Medium Sand
DEPTH TOP OF SEAL (Ft.) 5' BGS
DIAMETER OF OVERBURDEN CASING (In.) 6"
DIAMETER OF OVERBURDEN BOREHOLE (In.) 12"
BEDROCK (Ft.) 15.5' BGS
TYPE OF OUTER SEAL Portland Cement/Bentonite mix
DEPTH BOTTOM OF ROCK SOCKET (Ft.) 20.5' BGS
RISER PIPE DIAMETER (In.) ID 2" OD 2 3/8"
TYPE OF RISER PIPE PVC
TYPE OF SEAL Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.) 73.8' BGS
DEPTH TOP OF PERVIOUS SECTION (Ft.) 74.8' BGS
TYPE OF PERVIOUS SECTION PVC
PERVIOUS SECTION DIAMETER (In.) ID 2" OD 2 3/8"
TYPE OF OPENINGS 0.010"
TYPE OF FILTER PACK Medium Sand (#0)
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.) 84.8' BGS
DEPTH BOTTOM OF SUMP (Ft.) 86' BGS
DEPTH BOTTOM OF FILTER PACK (Ft.) 87' BGS
TYPE OF BACKFILL BELOW FILTER PACK Bentonite Chips (hydrated)
DIAMETER OF BOREHOLE (In.) 6"
END OF BORING (Ft.) 120.5' BGS

Note: Centralizer placed near bottom of screen and near mid point of riser

* BGS - BELOW GROUND SURFACE

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

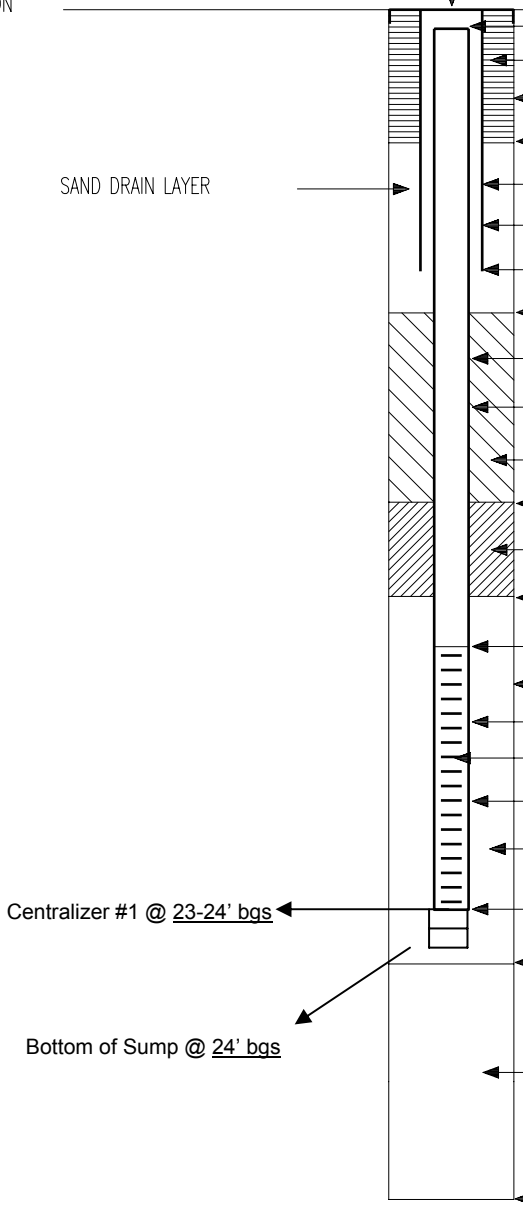
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-525S
CLIENT:	U.S EPA Region I	BORING NO:	SB-525S
CONTRACTOR:	ADT	BORING LOCATION:	Across the 405 Housatonic Ave. residence.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/22/02 @ 1200
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 22.9 feet

Elevation Top of Riser Pipe 22.39 feet

GROUND ELEVATION 22.9 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	11'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	13'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	23'
DEPTH BOTTOM OF FILTER PACK (Ft.)	24'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural
END OF BORING	24'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

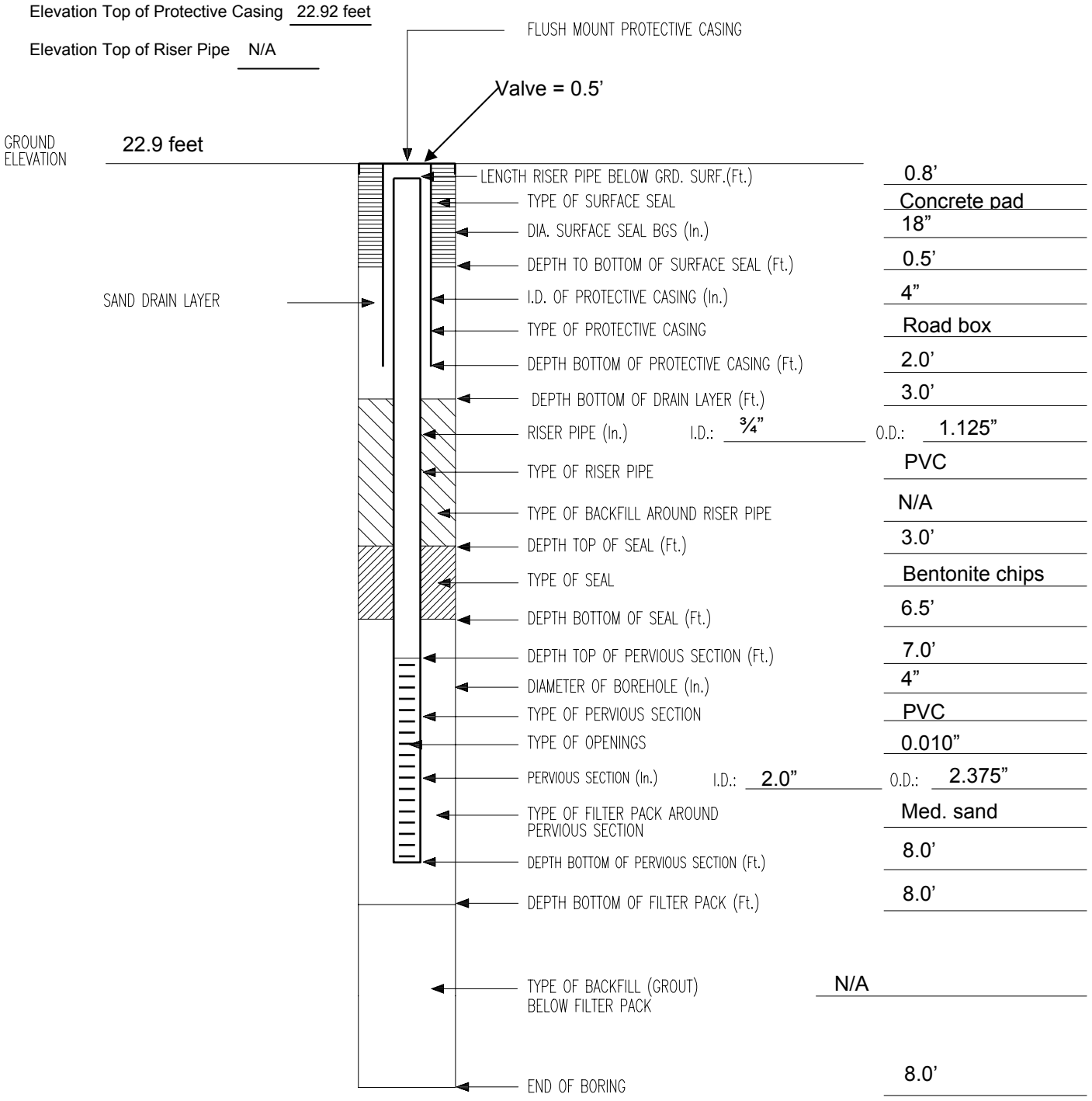
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-525SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-525SG
CONTRACTOR:	ADT	BORING LOCATION:	Across from 405 Housatonic Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/5/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 22.92 feet

Elevation Top of Riser Pipe N/A



GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

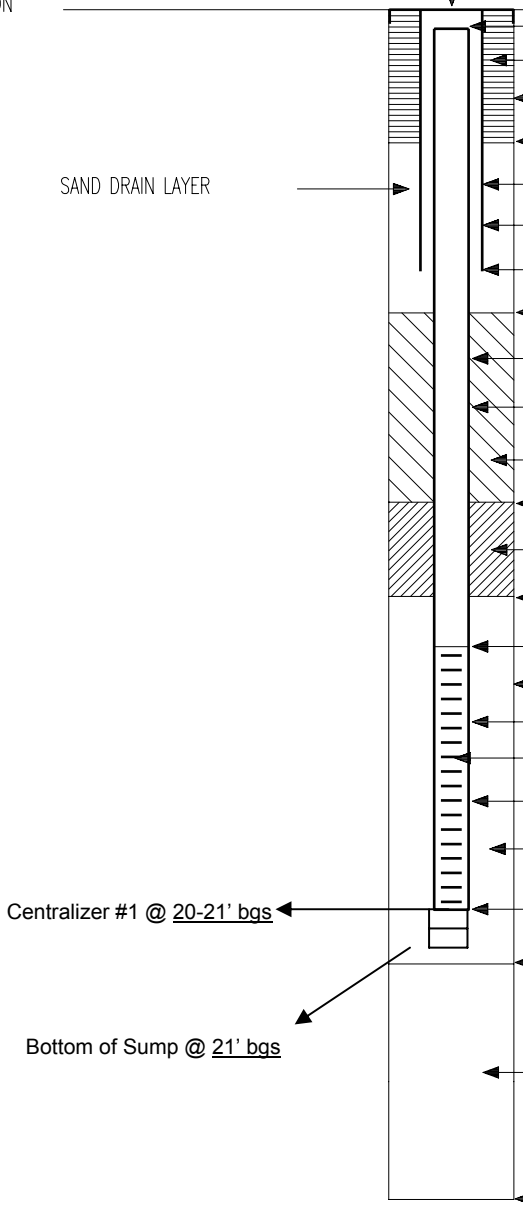
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-526S
CLIENT:	U.S EPA Region I	BORING NO:	SB-526S
CONTRACTOR:	ADT	BORING LOCATION:	In front of 520 Housatonic Ave. residence.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/23/02 @ 0800
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 15.07 feet

Elevation Top of Riser Pipe 14.41 feet

GROUND ELEVATION 15.1 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	8'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	10'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	20'
DEPTH BOTTOM OF FILTER PACK (Ft.)	21'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	21'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

WL = 12.0' bgs measured 10/23/02 @ 0830

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

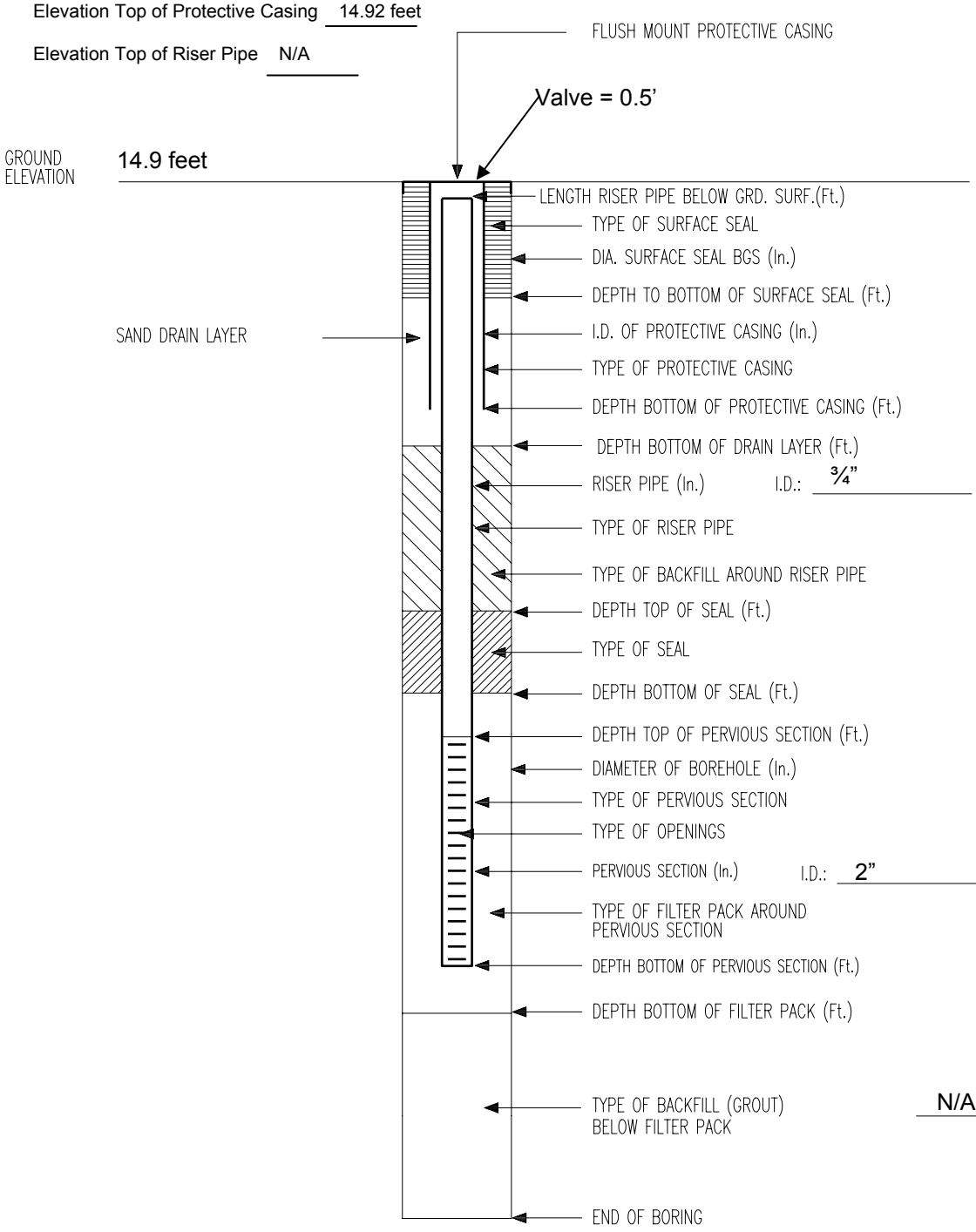
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-526SGD
CLIENT:	U.S EPA Region I	BORING NO:	SB-526SGD
CONTRACTOR:	ADT	BORING LOCATION:	520 Housatonic Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/7/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 14.92 feet

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.7'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	15"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	9.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	10.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.:	2" O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	11.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	11.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	11.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

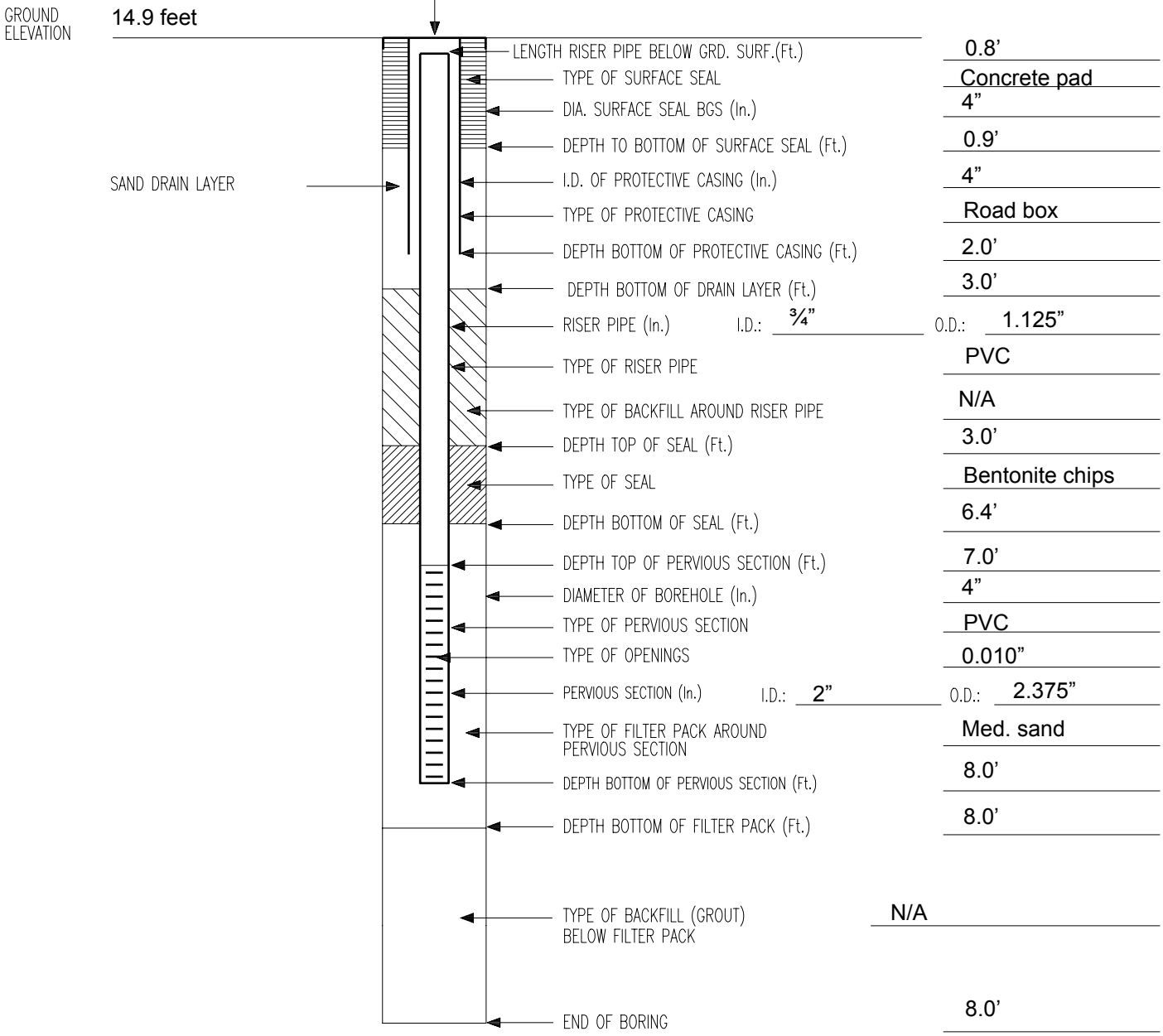
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-526SGM
CLIENT:	U.S EPA Region I	BORING NO:	SB-526SGM
CONTRACTOR:	ADT	BORING LOCATION:	520 Housatonic Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/7/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 14.88 feet

Elevation Top of Riser Pipe N/A



GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

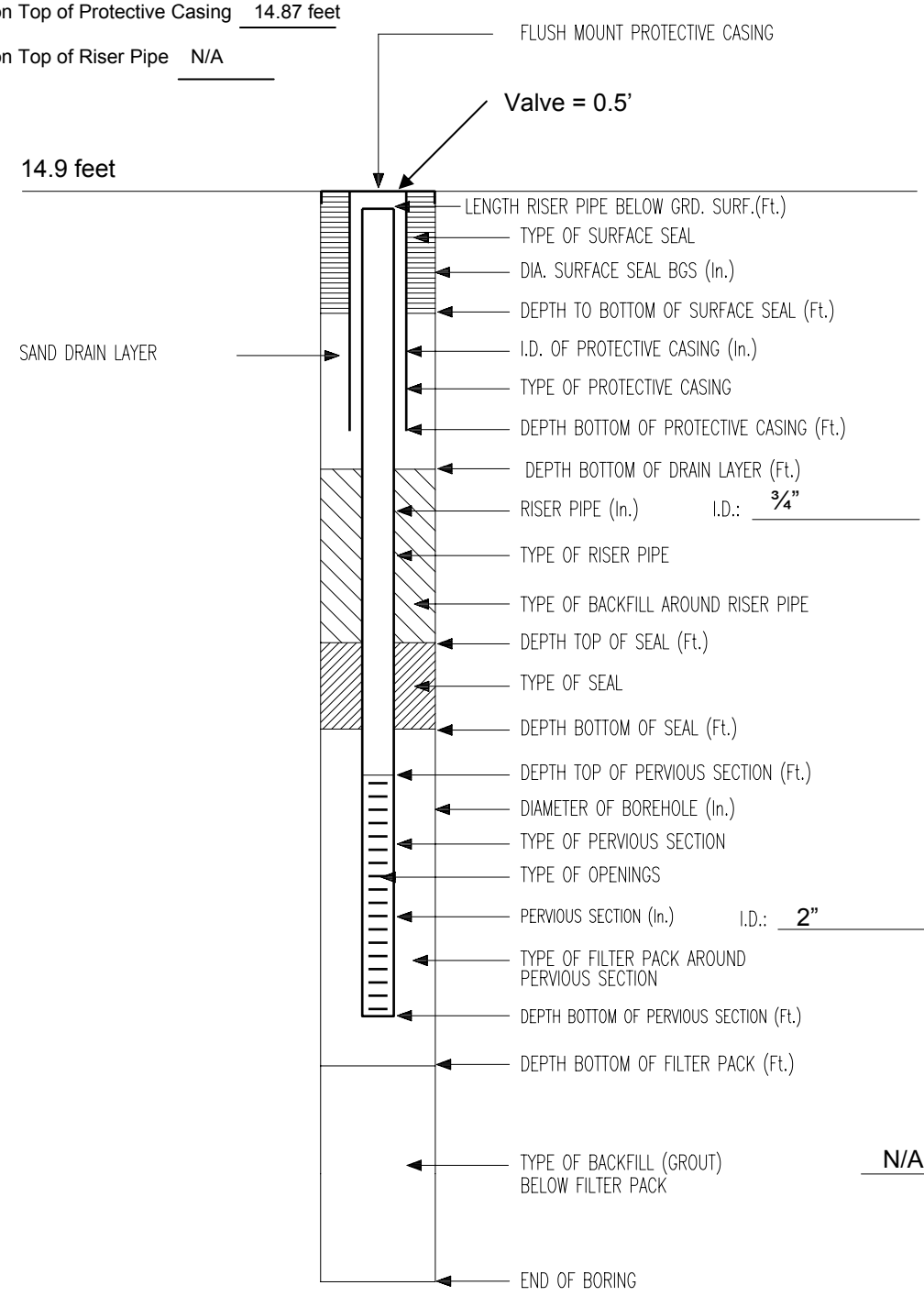
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-526SGS
CLIENT:	U.S EPA Region I	BORING NO:	SB-526SGS
CONTRACTOR:	ADT	BORING LOCATION:	520 Housatonic Ave.
DRILLER:	Les Darrow		
LOGGED BY:	J. Lambert	DATE:	11/7/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 14.87 feet

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.7'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	15"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	0.9'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	1.0'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	1.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	1.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	2.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.:	2" O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	3.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	3.3'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	3.3'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

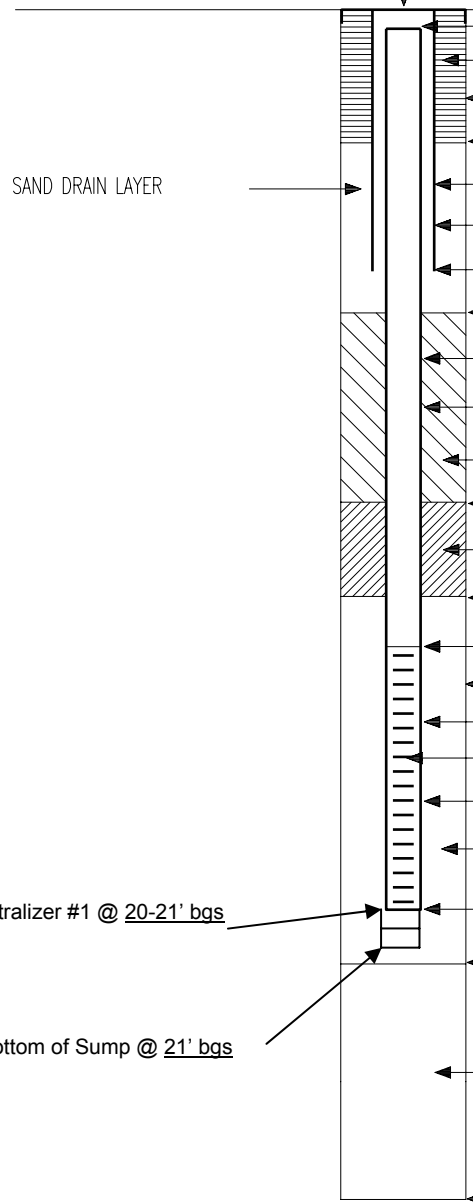
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-527S
CLIENT:	U.S EPA Region I	BORING NO:	SB-527S
CONTRACTOR:	ADT	BORING LOCATION:	Located on Riverview Place
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/29/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03
		PAGE:	1 OF 1

Elevation Top of Protective Casing 17.22 feet

Elevation Top of Riser Pipe 16.71 feet

GROUND ELEVATION 17.2 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.8'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	4.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	8.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	10.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	20.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	21.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	21.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

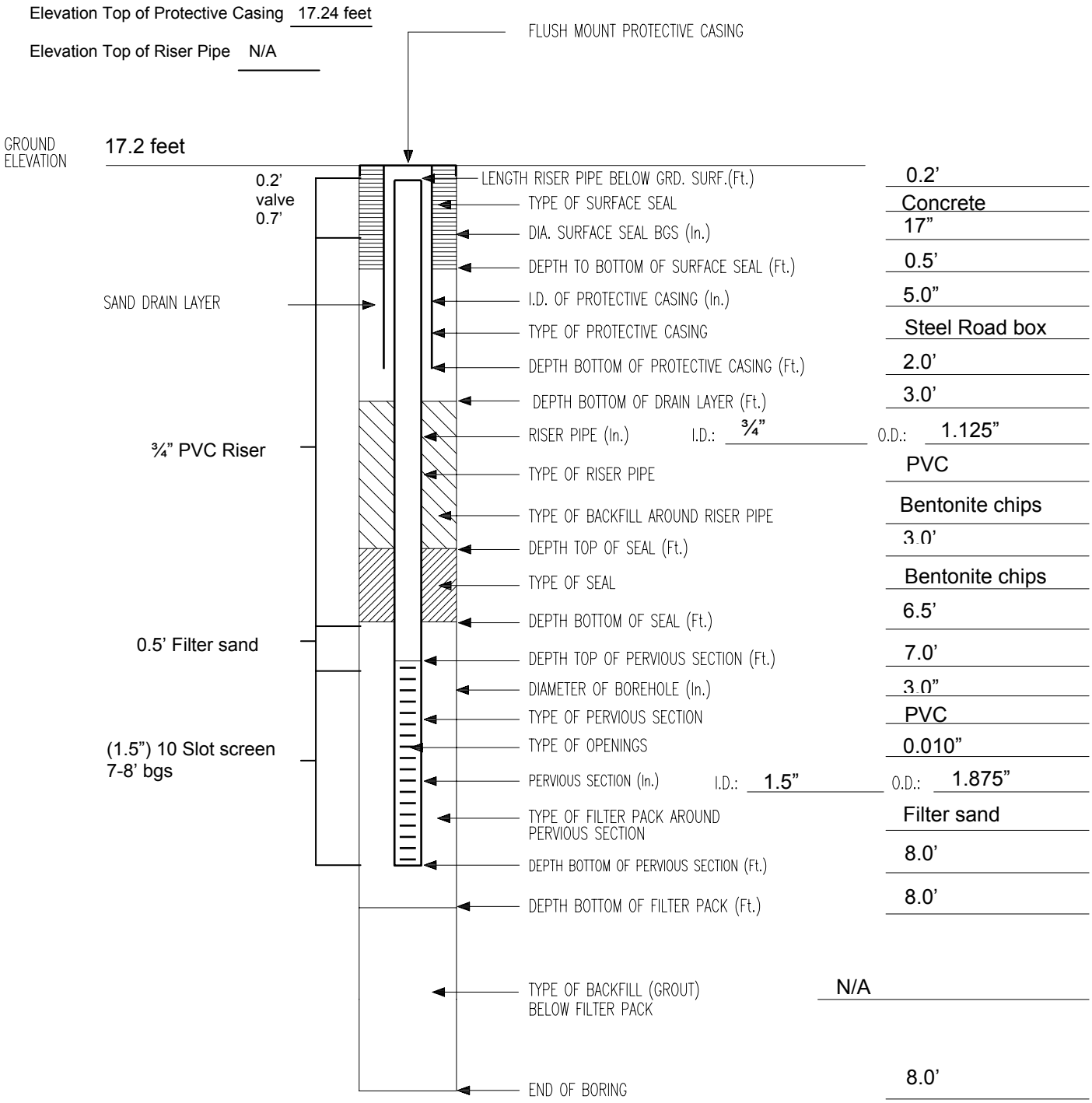
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-527SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-527SG
CONTRACTOR:	ADT	BORING LOCATION:	Riverview St.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/30/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 17.24 feet

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.2'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	17"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 1.5" O.D.:	1.875"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-528S
CLIENT:	U.S EPA Region I	BORING NO:	SB-528S
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	C. Rousseau	DATE:	10/28/02 @ 1600
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

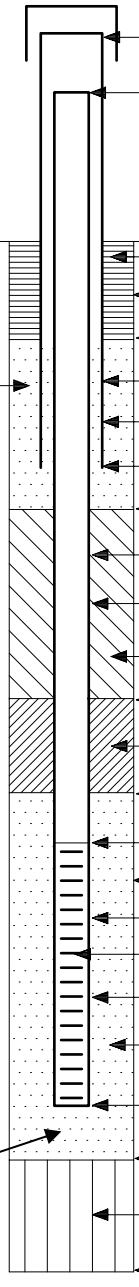
BORING LOCATION: Lot behind the Blue Goose Restaurant

PAGE: 1 OF 1

Elevation Top of Protective Casing 11.81 feet

Elevation Top of Riser Pipe 11.59 feet

GROUND ELEVATION 9.2 feet



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	3.0'
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	2.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	19"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.4'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Stick up casing
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	4.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	15.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	16.0'
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	16.0'

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-528SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-528SG
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	11/4/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

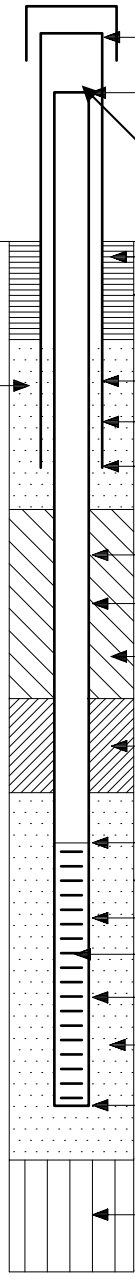
BORING LOCATION: Lot behind the Blue Goose

PAGE: 1 OF 1

Elevation Top of Protective Casing 12.21 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 9.0 feet



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	3.0'
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	2.5'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Stick up
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: ¾"	O.D.: 1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.5'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	3.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	4.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 1.5"	O.D.: 1.875"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	5.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	5.0'
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	5.0'

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

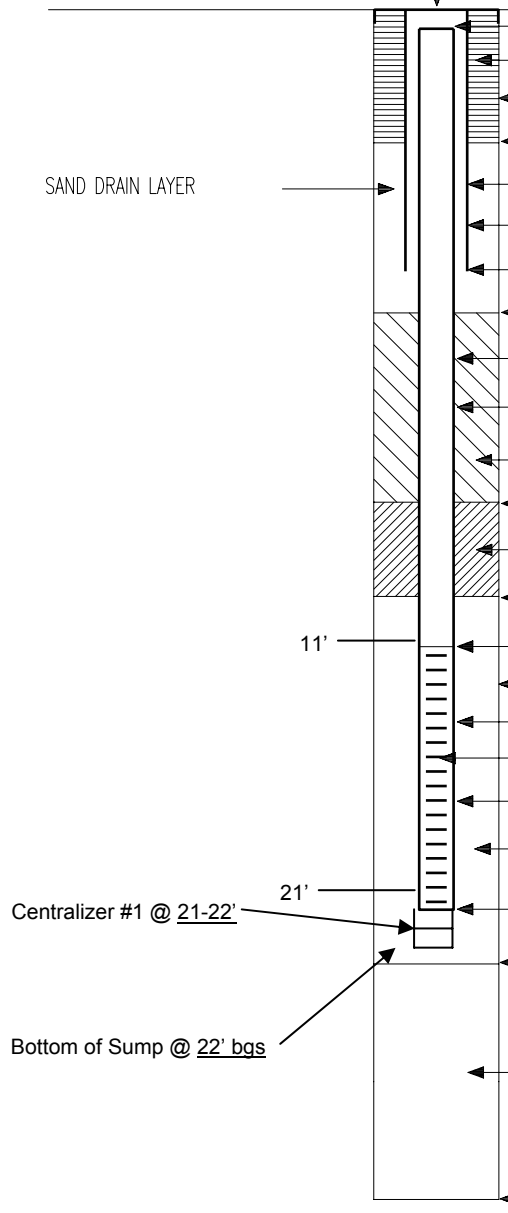
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-529S
CLIENT:	U.S EPA Region I	BORING NO:	SB-529S
CONTRACTOR:	ADT	BORING LOCATION:	Front landscaped area VFW property.
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	10/30/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 17.77 feet

Elevation Top of Riser Pipe 17.23 feet

GROUND ELEVATION 17.7 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.5'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	9.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	11.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	21.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	22.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	22.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

10/30/02: WL –14.0 ft. bgs @ 0815

TtNUS Form 0058

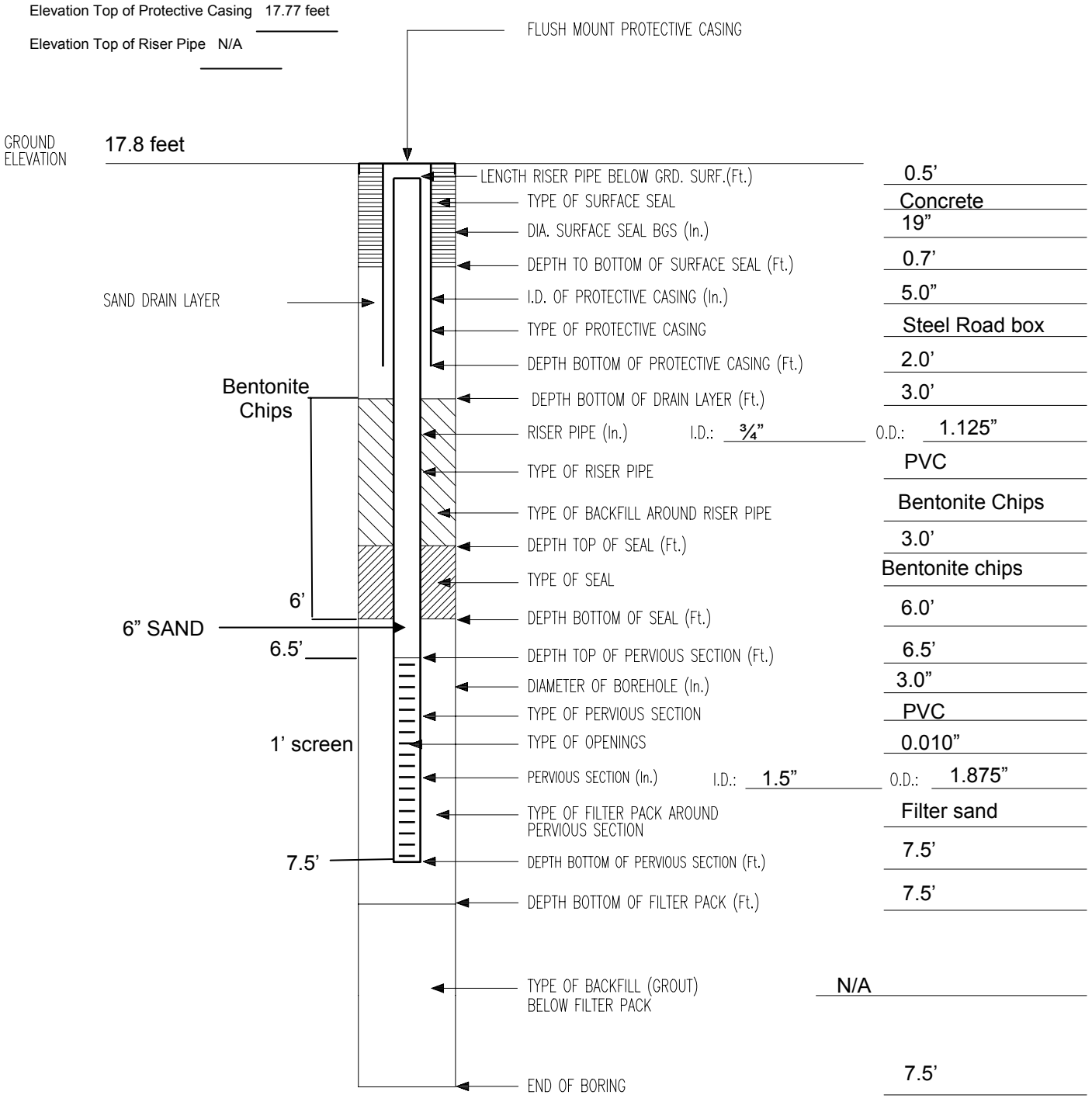
FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-529SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-529SG
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	C. Rousseau	DATE:	10/30/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03
BORING LOCATION:	Landscaped area in front of the VFW.		
PAGE:	1 OF 1		

Elevation Top of Protective Casing 17.77 feet

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	19"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.7'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.5'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.:	1.5" O.D.: 1.875"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	7.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	7.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	7.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-530S
CLIENT:	U.S EPA Region I	BORING NO:	SB-530S
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	10/31/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

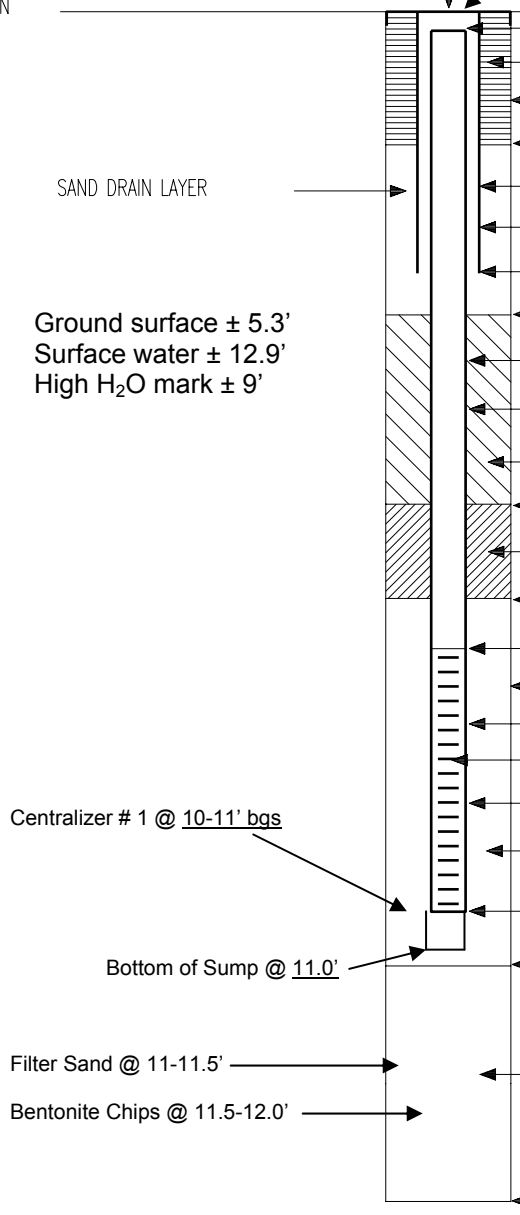
BORING LOCATION: Shore Rd. in the boat club Parking lot.

PAGE: 1 OF 1

Elevation Top of Protective Casing 8.03 feet

Elevation Top of Riser Pipe 7.54 feet

GROUND ELEVATION 8.1 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	15"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.6'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.8'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	2.8'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	10.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	11.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	11.0' Filter Sand 11.5' Bentonite Chips
END OF BORING	12.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-531S
CLIENT:	U.S EPA Region I	BORING NO:	SB-531S
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	10/31/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

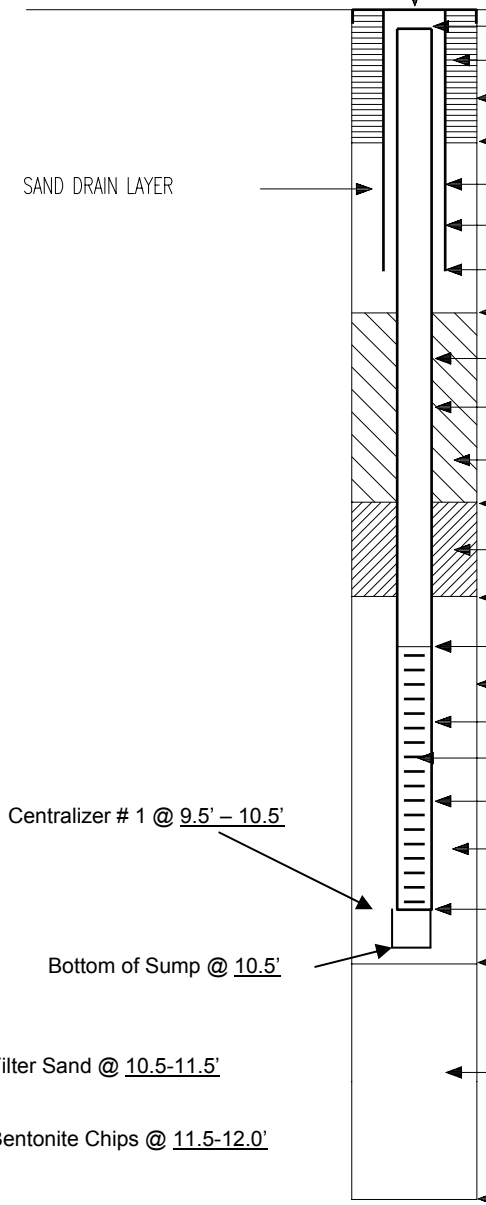
BORING LOCATION: Shore Rd. in the boat club Landscaped area.

PAGE: 1 OF 1

Elevation Top of Protective Casing 8.09 feet

Elevation Top of Riser Pipe 7.50 feet

GROUND ELEVATION 8.2 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.75'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.5'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.5'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	4.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	9.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	10.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	10.5' Filter Sand 11.5' Bentonite Chips
END OF BORING	12.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

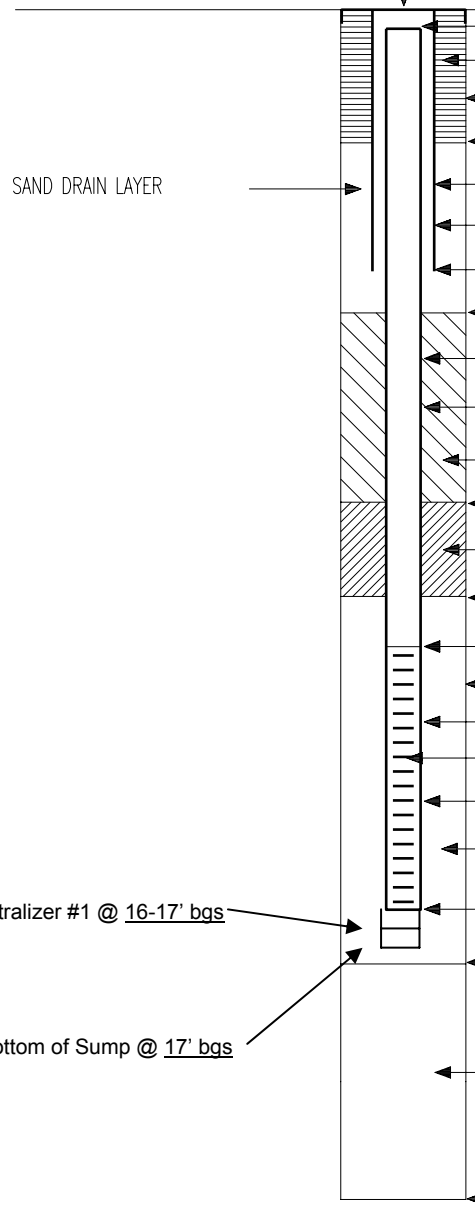
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-532S
CLIENT:	U.S EPA Region I	BORING NO:	SB-532S
CONTRACTOR:	ADT	BORING LOCATION:	Across the street from the Housatonic Boat Club
DRILLER:	Les Darrow		
LOGGED BY:	C. Rousseau	DATE:	11/1/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 11.25 feet

Elevation Top of Riser Pipe 10.78 feet

GROUND ELEVATION 11.2 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	19"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.55'
I.D. OF PROTECTIVE CASING (In.)	5.0"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	4.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6.0'
DIAMETER OF BOREHOLE (In.)	3.0"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.: 2.375"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Filter sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	16.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	17.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	17.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

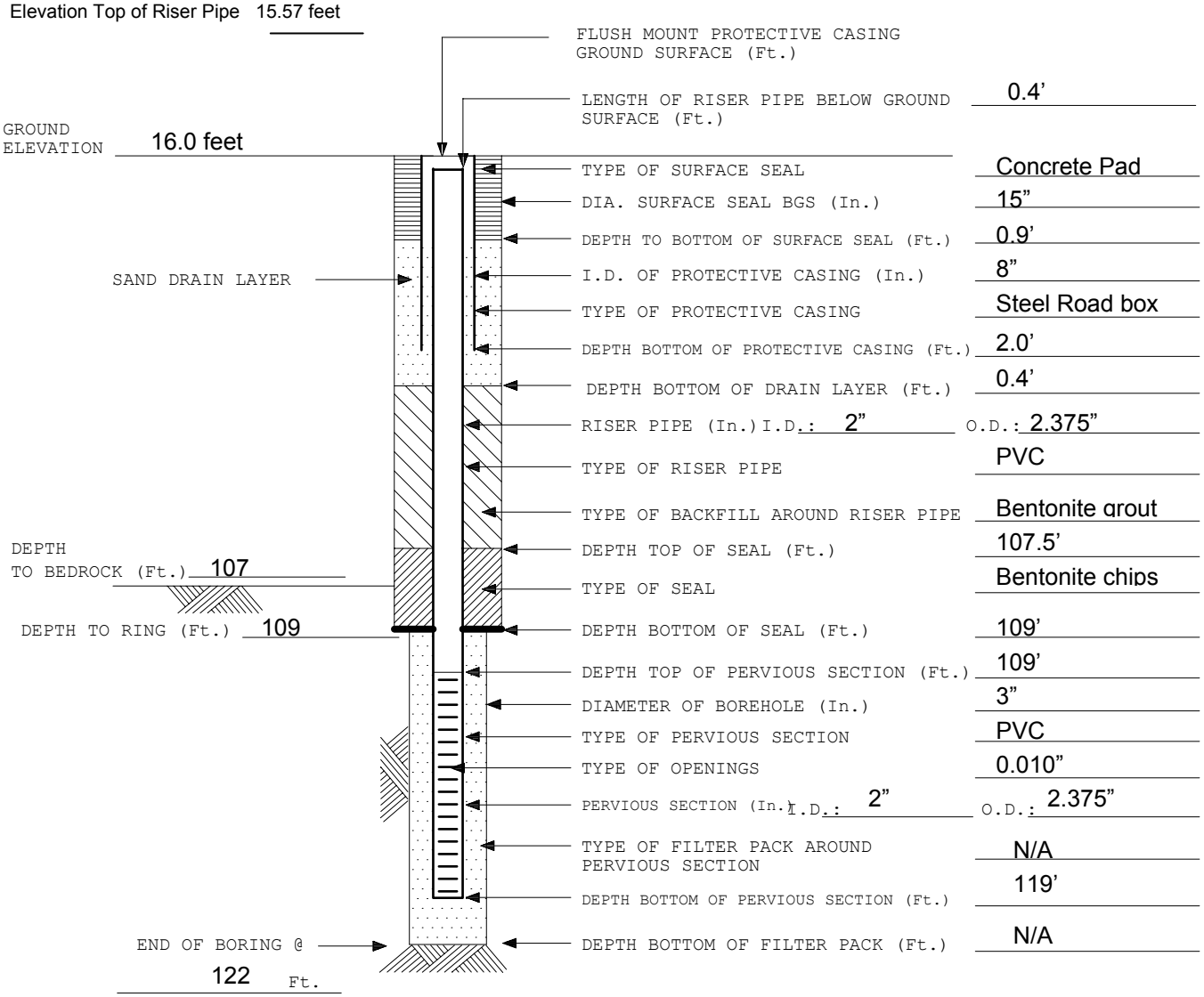
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-533B
CLIENT:	U.S EPA Region I	BORING NO:	SB-533B
CONTRACTOR:	ADT.	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	11/13 – 11/14/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

BORING LOCATION: In front of 1st house on Sydney

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.96 feet

Elevation Top of Riser Pipe 15.57 feet



G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

TtNUS form 0060

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-533D
CLIENT:	U.S EPA Region I	BORING NO:	SB-533D
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	11/18/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

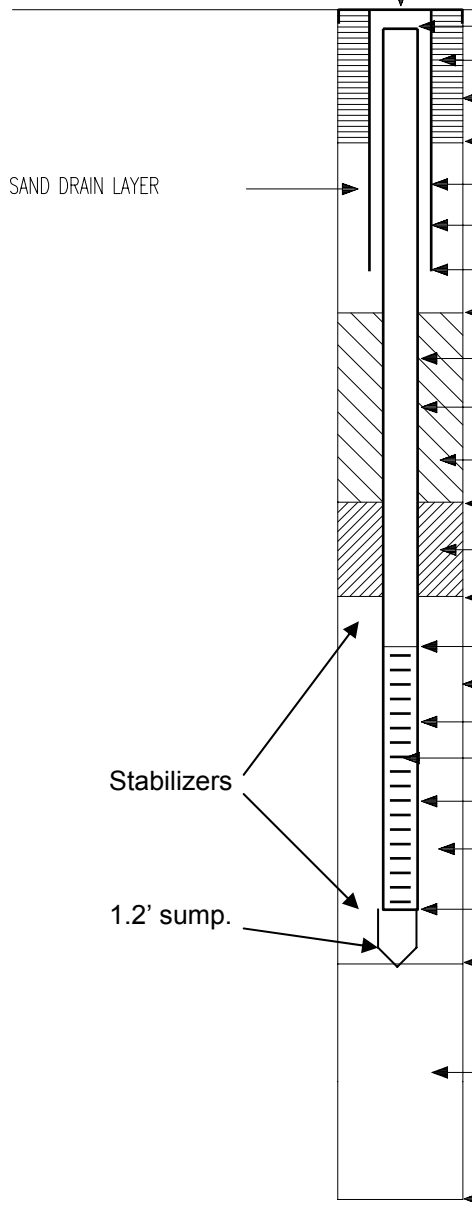
BORING LOCATION: In front of 1st house on Sydney St.

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.90 feet

Elevation Top of Riser Pipe 15.16 feet

GROUND ELEVATION 15.9 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.8'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	4.0'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite grout
DEPTH TOP OF SEAL (Ft.)	89.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	92.0'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	93.8'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	103.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	105'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	105'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

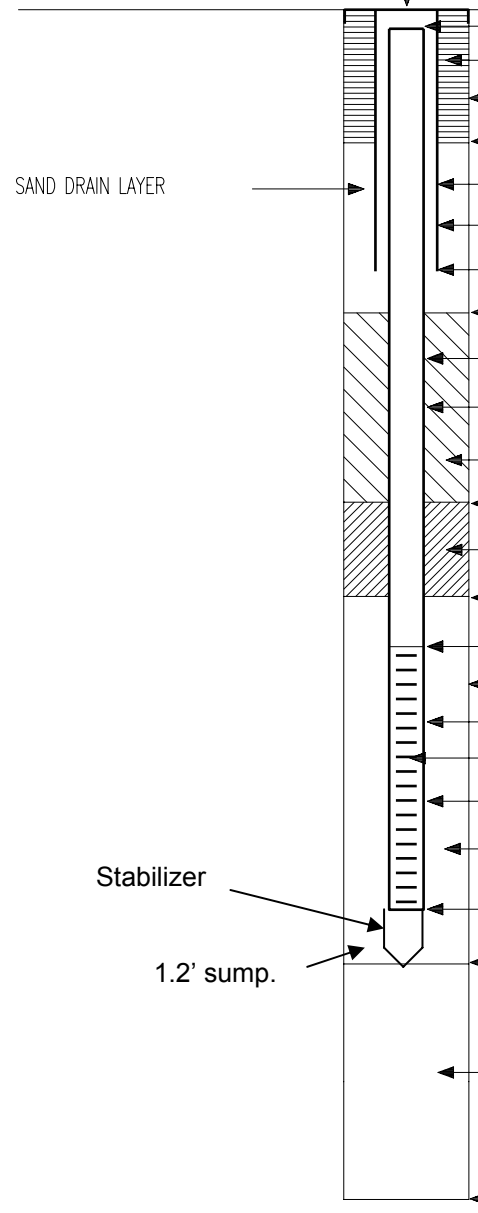
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-533S
CLIENT:	U.S EPA Region I	BORING NO:	SB-533S
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	11/19/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

BORING LOCATION: In front of 1st house on Sydney St.

PAGE: 1 OF 1

Elevation Top of Protective Casing 15.87 feet

Elevation Top of Riser Pipe 15.34 feet



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	8"
TYPE OF PROTECTIVE CASING	Steel Road box
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.0'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	6.8'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	8.8'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	18.8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	20.0'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	20.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

WL = 11.4' in MW533D

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-534S
CLIENT:	U.S EPA Region I	BORING NO:	SB-534S
CONTRACTOR:	ADT	DRILLER:	M. Larabie
LOGGED BY:	T. Dorgan	DATE:	11/12/02
CHECKED BY:	D. Hartigan	DATE:	9/17/03

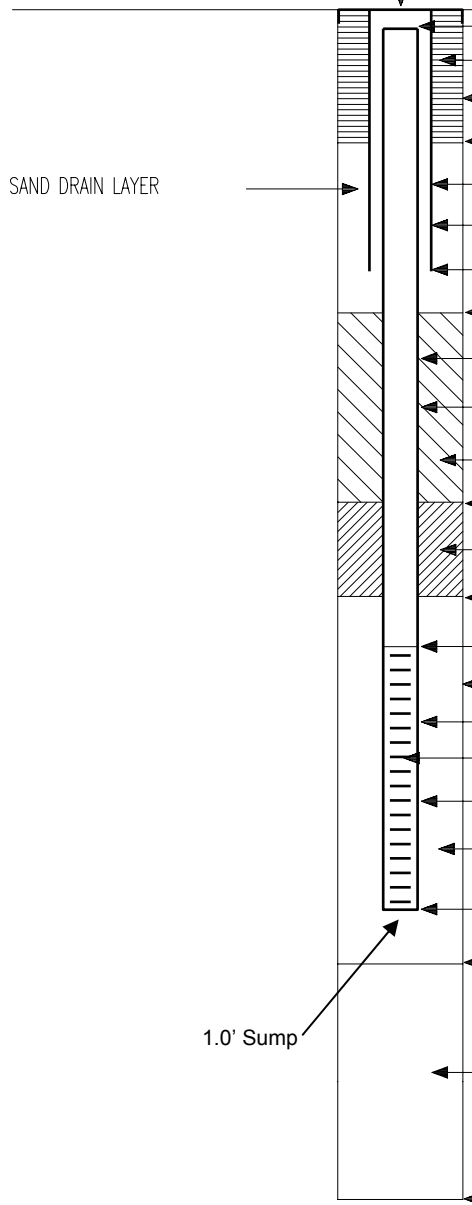
BORING LOCATION: Between 462 & 448 Housatonic Ave.

PAGE: 1 OF 1

Elevation Top of Protective Casing 18.99 Ft.

Elevation Top of Riser Pipe 18.37 Ft.

GROUND ELEVATION 19.0 Ft.



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	7"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.6'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel roadbox
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'
RISER PIPE (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Bentonite chips
DEPTH TOP OF SEAL (Ft.)	8'
TYPE OF SEAL	Bentonite Chips (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	10.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	12.5'
DIAMETER OF BOREHOLE (In.)	~8"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0" O.D.:	2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	22.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	23.5'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Natural Collapse
END OF BORING	24'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

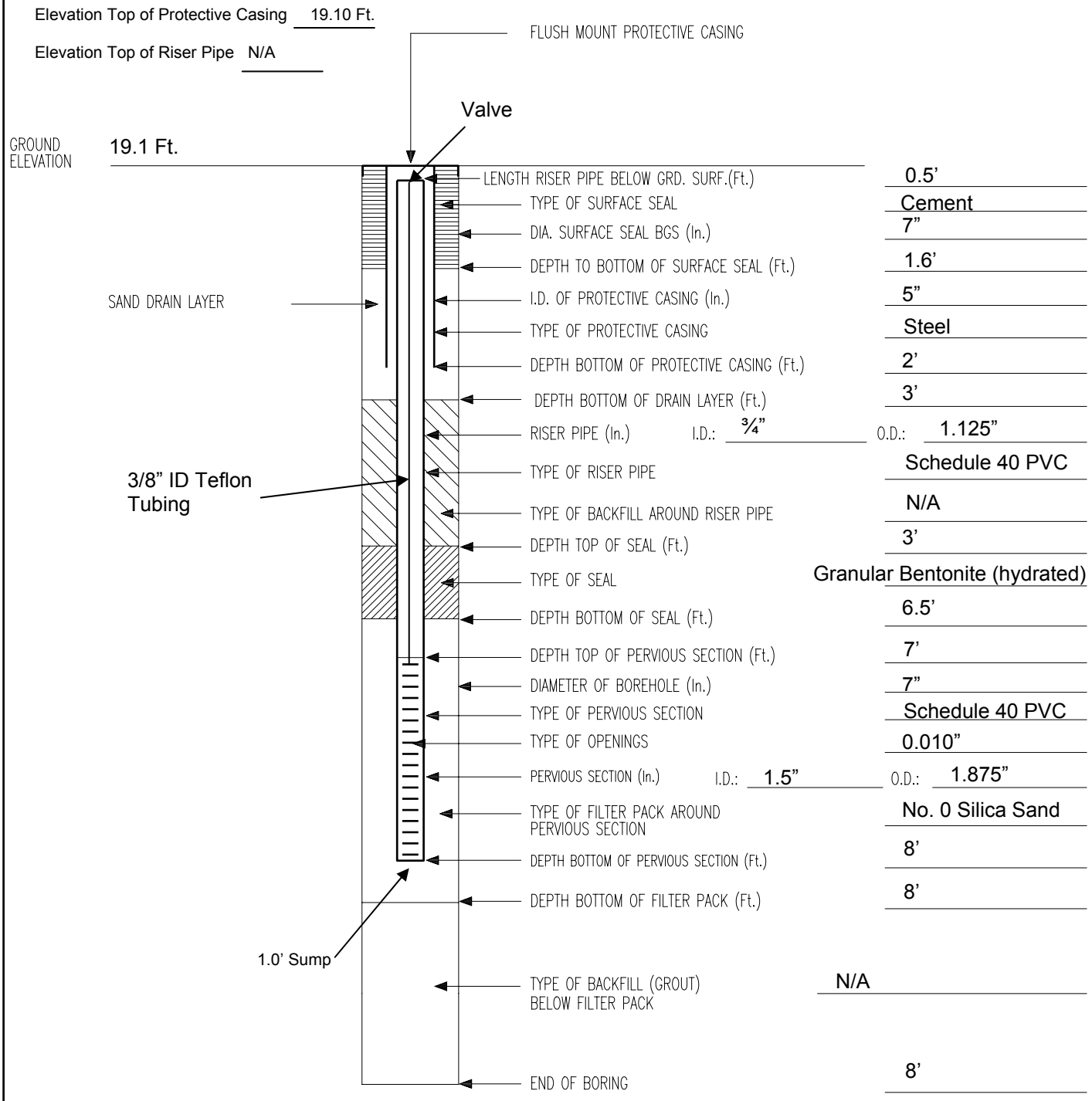
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-534SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-534SG
CONTRACTOR:	ADT	BORING LOCATION:	462 & 448 Housatonic Ave.
DRILLER:	M. Larabie		
LOGGED BY:	T. Dorgan	DATE:	11/12/02
CHECKED BY:	D. Hartigan	DATE:	9/17/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 19.10 Ft.

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.5'
TYPE OF SURFACE SEAL	Cement
DIA. SURFACE SEAL BGS (In.)	7"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.6'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3'
TYPE OF SEAL	Granular Bentonite (hydrated)
DEPTH BOTTOM OF SEAL (Ft.)	6.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7'
DIAMETER OF BOREHOLE (In.)	7"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 1.5" O.D.:	1.875"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

TETRA TECH NUS INC.

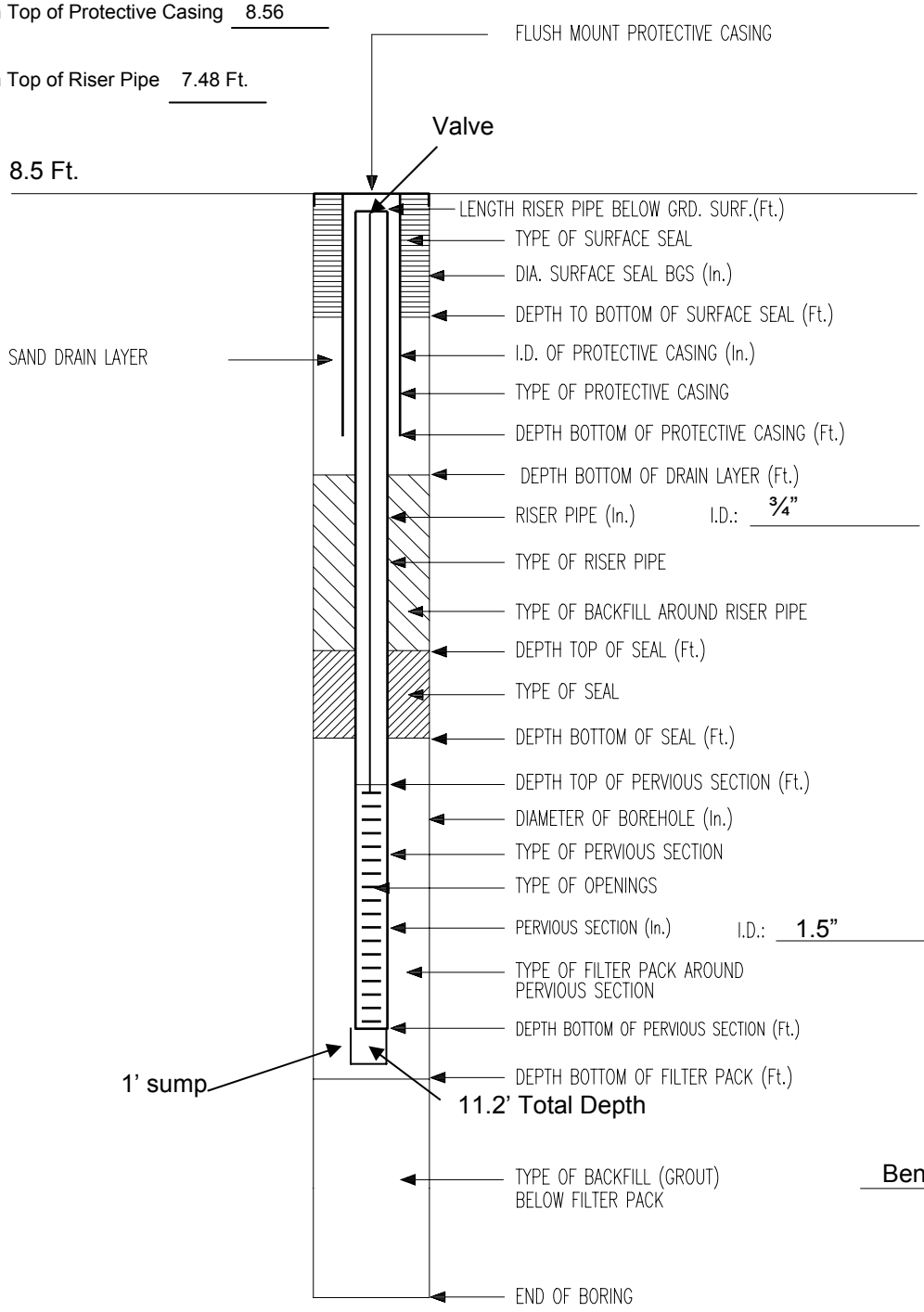
PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-535S
CLIENT:	U.S EPA Region I	BORING NO:	SB-535S
CONTRACTOR:	ADT	BORING LOCATION:	520 Housatonic Backyard
DRILLER:	M. Larabie		
LOGGED BY:	T. Dorgan	DATE:	11/12/02
CHECKED BY:	D. Hartigan	DATE:	9/17/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 8.56 Ft.

Elevation Top of Riser Pipe 7.48 Ft.

GROUND ELEVATION 8.5 Ft.



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	1.05'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	7"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	2.5'
TYPE OF SEAL	Granular Bentonite
DEPTH BOTTOM OF SEAL (Ft.)	3'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	5'
DIAMETER OF BOREHOLE (In.)	7"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 1.5" O.D.:	1.875"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	10'
DEPTH BOTTOM OF FILTER PACK (Ft.)	10.68'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	Bentonite (Granular)
END OF BORING	16'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

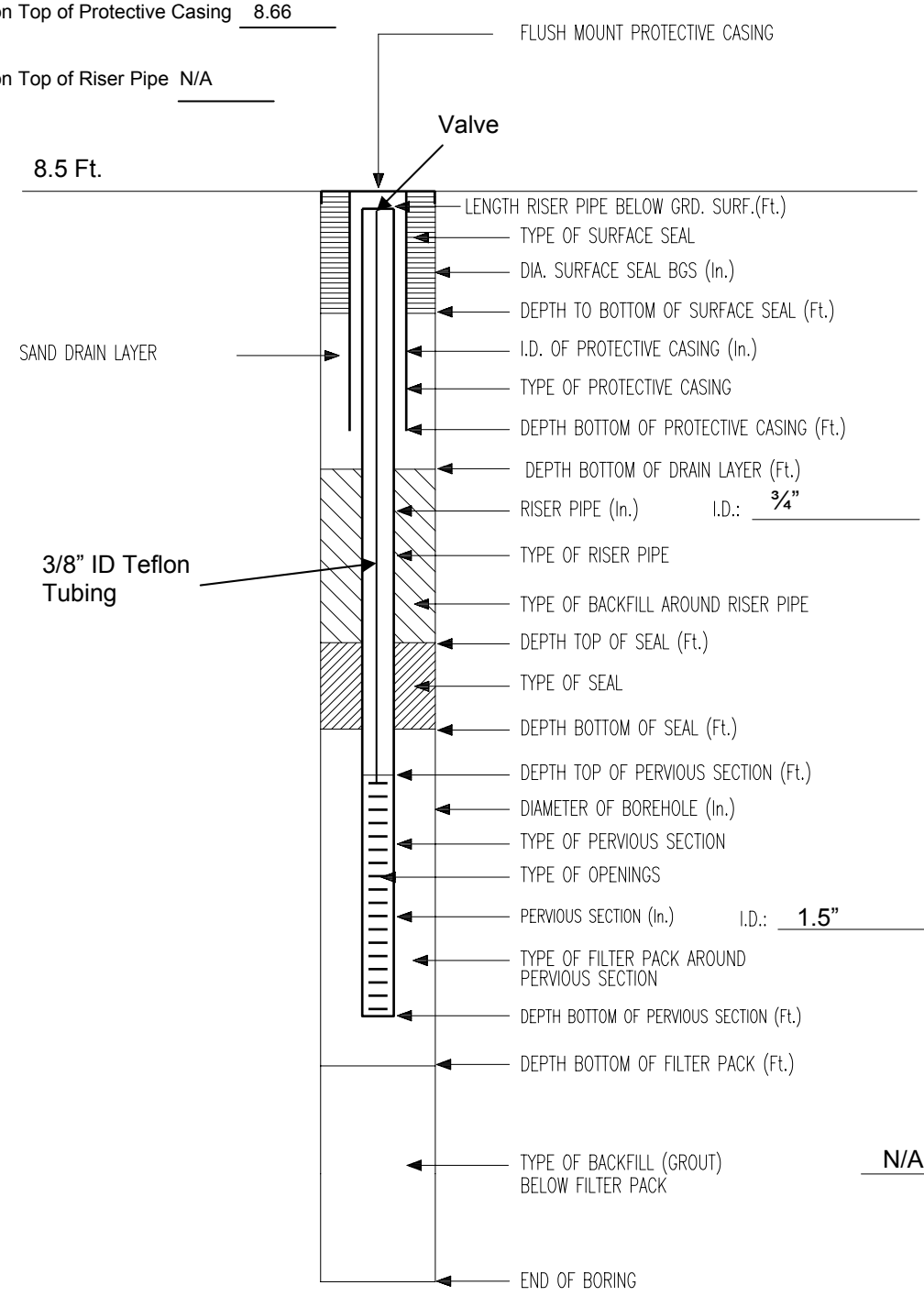
TETRA TECH NUS INC.

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-535SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-535SG
CONTRACTOR:	ADT	BORING LOCATION:	Backyard 520 Housatonic Ave.
DRILLER:	M. Larabie		
LOGGED BY:	T. Dorgan	DATE:	11/12/02
CHECKED BY:	D. Hartigan	DATE:	9/17/03

PAGE: 1 OF 1

Elevation Top of Protective Casing 8.66 Ft.

Elevation Top of Riser Pipe N/A



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	7"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	5"
TYPE OF PROTECTIVE CASING	Steel
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3'
RISER PIPE (In.) I.D.: ¾" O.D.:	1.125"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3'
TYPE OF SEAL	Granular Bentonite
DEPTH BOTTOM OF SEAL (Ft.)	5.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	6'
DIAMETER OF BOREHOLE (In.)	7"
TYPE OF PERVIOUS SECTION	Schedule 40 PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 1.5" O.D.:	1.875"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	No. 0 Silica Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	7'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	8'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-536S
CLIENT:	U.S EPA Region I	BORING NO:	SB-536S
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	11/19/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

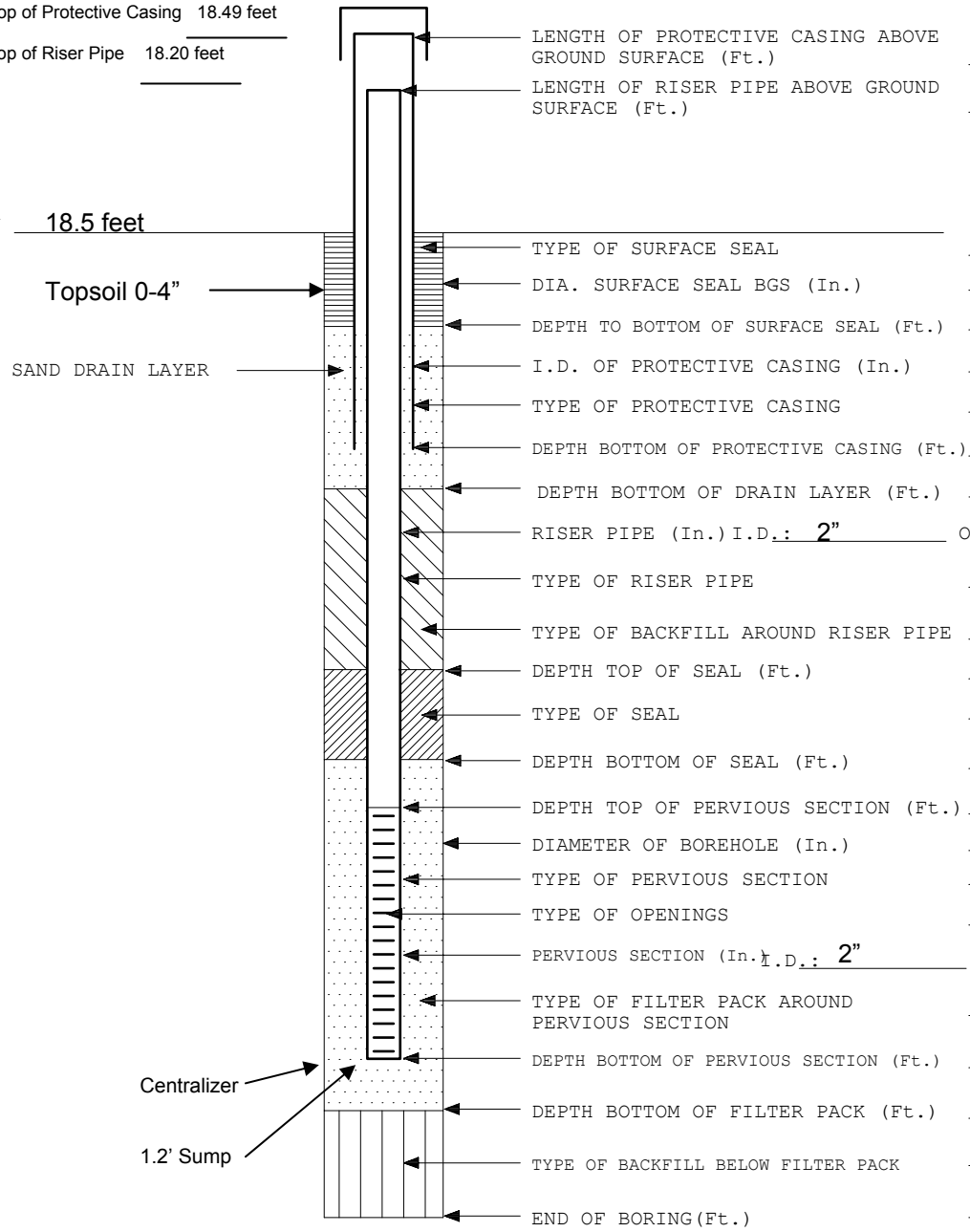
BORING LOCATION: Empty lot behind upholstery

PAGE: 1 OF 1

Elevation Top of Protective Casing 18.49 feet

Elevation Top of Riser Pipe 18.20 feet

GROUND ELEVATION 18.5 feet



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.7’
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	2.3’
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18”
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0’
I.D. OF PROTECTIVE CASING (In.)	4”
TYPE OF PROTECTIVE CASING	Steel, stick up
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.3’
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0’
RISER PIPE (In.) I.D.: 2”	O.D.: 2.375”
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0’
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	7.0’
DEPTH TOP OF PERVIOUS SECTION (Ft.)	8.8’
DIAMETER OF BOREHOLE (In.)	4”
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010”
PERVIOUS SECTION (In.) I.D.: 2”	O.D.: 2.375”
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	18.8’
DEPTH BOTTOM OF FILTER PACK (Ft.)	20.0’
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	20’

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

OVERBURDEN MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME:	Raymark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-536SG
CLIENT:	U.S EPA Region I	BORING NO:	SB-536SG
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	J. Lambert	DATE:	11/19/02
CHECKED BY:	J. Danieli, D. Hartigan	DATE:	8/18/03, 9/23/03

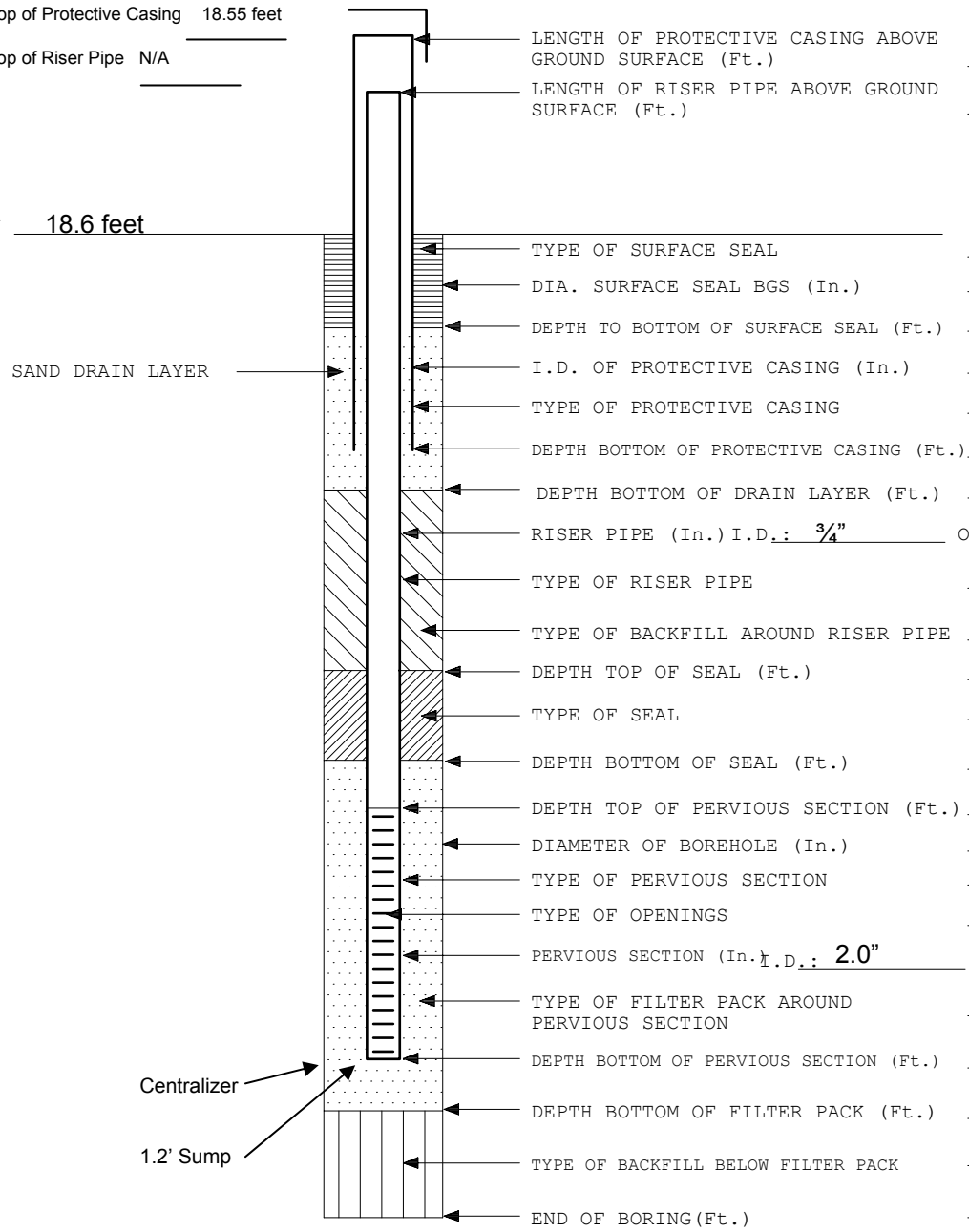
BORING LOCATION: Empty lot behind upholstery shop.

PAGE: 1 OF 1

Elevation Top of Protective Casing 18.55 feet

Elevation Top of Riser Pipe N/A

GROUND ELEVATION 18.6 feet



LENGTH OF PROTECTIVE CASING ABOVE GROUND SURFACE (Ft.)	2.5'
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (Ft.)	1.5'
TYPE OF SURFACE SEAL	Concrete pad
DIA. SURFACE SEAL BGS (In.)	18"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.0'
I.D. OF PROTECTIVE CASING (In.)	4"
TYPE OF PROTECTIVE CASING	Steel casing
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	2.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	3.0'
RISER PIPE (In.) I.D.: ¾"	O.D.: 1.125"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	N/A
DEPTH TOP OF SEAL (Ft.)	3.0'
TYPE OF SEAL	Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	6.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7.0'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010"
PERVIOUS SECTION (In.) I.D.: 2.0"	O.D.: 2.375"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Med. sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	8.0'
DEPTH BOTTOM OF FILTER PACK (Ft.)	8.0'
TYPE OF BACKFILL BELOW FILTER PACK	N/A
END OF BORING (Ft.)	8.0'

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG

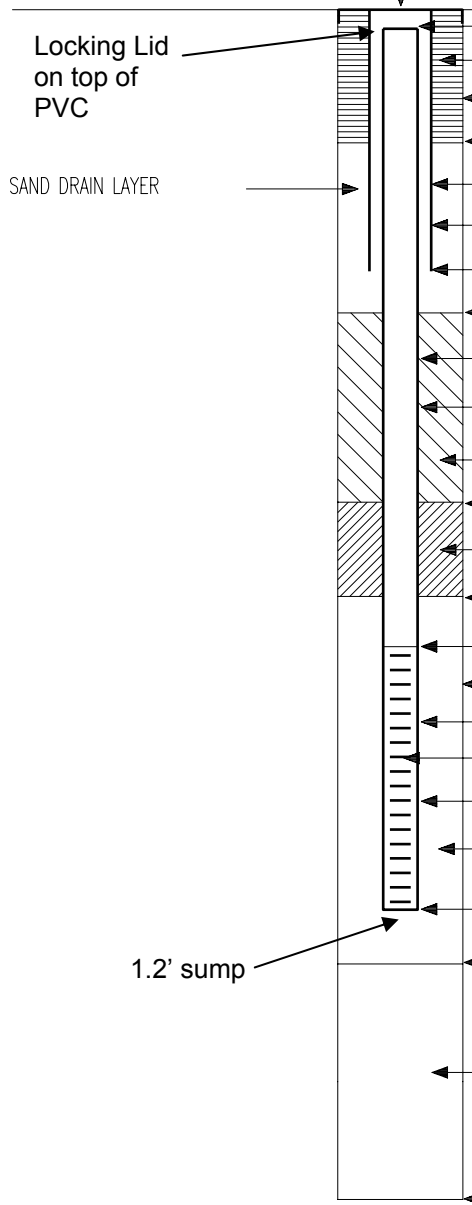
TETRA TECH NUS INC.

PROJECT NAME:	Ravmark OU2	PROJECT NO:	N4236-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	TW-01
CLIENT:	U.S EPA Region I	BORING NO:	TW-01
CONTRACTOR:	ADT	DRILLER:	Les Darrow
LOGGED BY:	G. Sturgeon	DATE:	5/6/03 – 5/9/03
CHECKED BY:	D. Hartigan	DATE:	9/17/03
BORING LOCATION:	Behind Marshall's & between MW-504 & MW-505		
PAGE:	1 OF 1		

Elevation Top of Protective Casing 9.50 Ft.

Elevation Top of Riser Pipe 8.85 Ft.

GROUND ELEVATION 9.5 ft



LENGTH RISER PIPE BELOW GRD. SURF.(Ft.)	0.65'
TYPE OF SURFACE SEAL	Concrete
DIA. SURFACE SEAL BGS (In.)	~26"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	1.5'
I.D. OF PROTECTIVE CASING (In.)	24" X 24"
TYPE OF PROTECTIVE CASING	Steel man hole
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	1.5'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.0'
RISER PIPE (In.) I.D.: 8" O.D.:	8.5"
TYPE OF RISER PIPE	Schedule 40 PVC
TYPE OF BACKFILL AROUND RISER PIPE	Cement grout
DEPTH TOP OF SEAL (Ft.)	13'
TYPE OF SEAL	Bentonite chips
DEPTH BOTTOM OF SEAL (Ft.)	15'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	48'
DIAMETER OF BOREHOLE (In.)	14"
TYPE OF PERVIOUS SECTION	Stainless steel
TYPE OF OPENINGS	0.03"
PERVIOUS SECTION (In.) I.D.: 8" O.D.:	8.5"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	68'
DEPTH BOTTOM OF FILTER PACK (Ft.)	69'
TYPE OF BACKFILL (GROUT) BELOW FILTER PACK	N/A
END OF BORING	69'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

TtNUS Form 0058

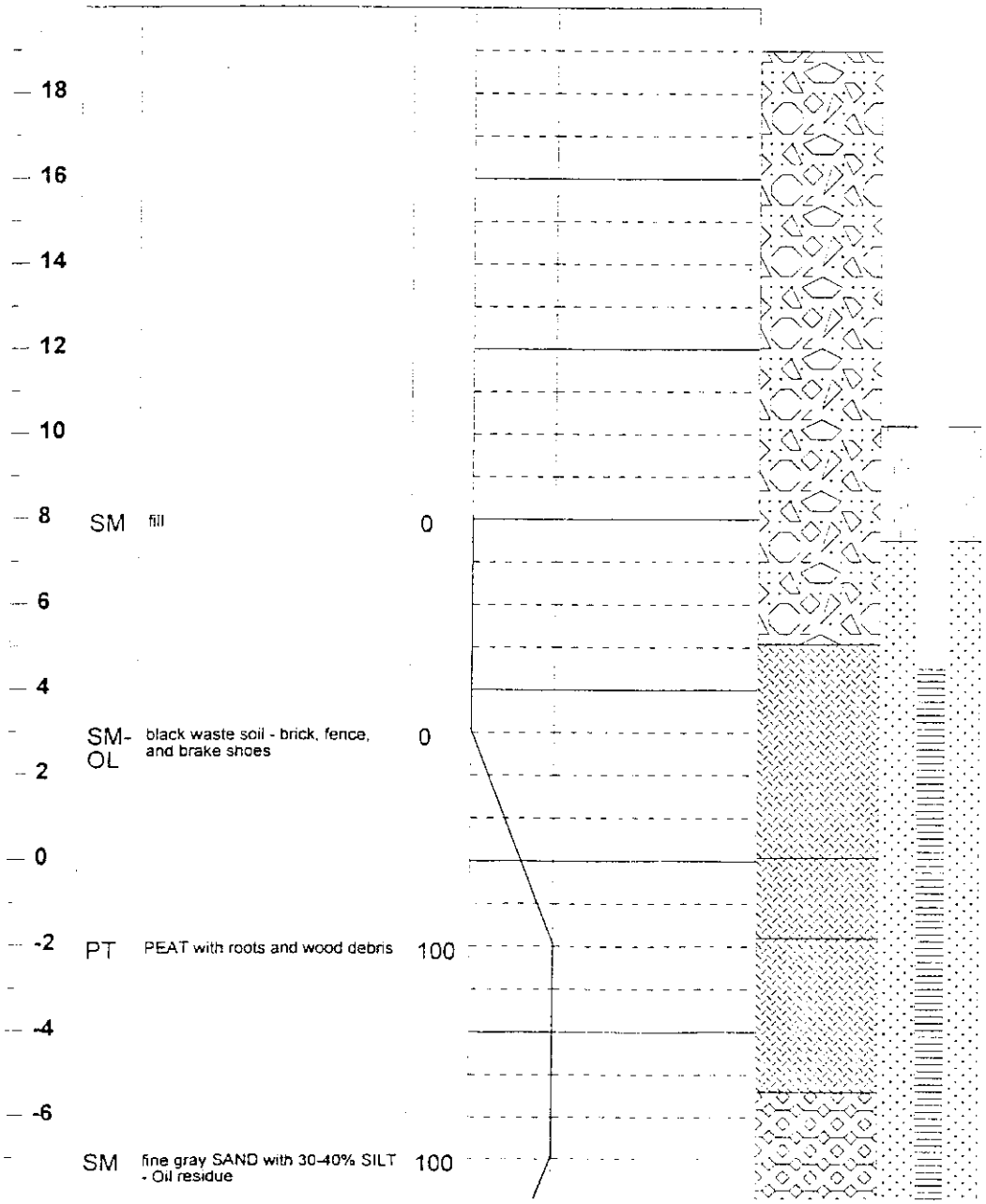
FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-01
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 07/07/97
DATE COMPLETED: 07/25/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-01S	899073.32, 634106.61	18.81 FT-MSL	(4.5 to -10.5)
PC-01M	899076.36, 634104.35	18.69 FT-MSL	(-28.6 to -38.6)
PC-01D	899074.31, 634102.04	18.76 FT-MSL	(-57.5 to -63.0)
PC-01B	899071.55, 634104.39	18.79 FT-MSL	(-73.0 to -88.0)

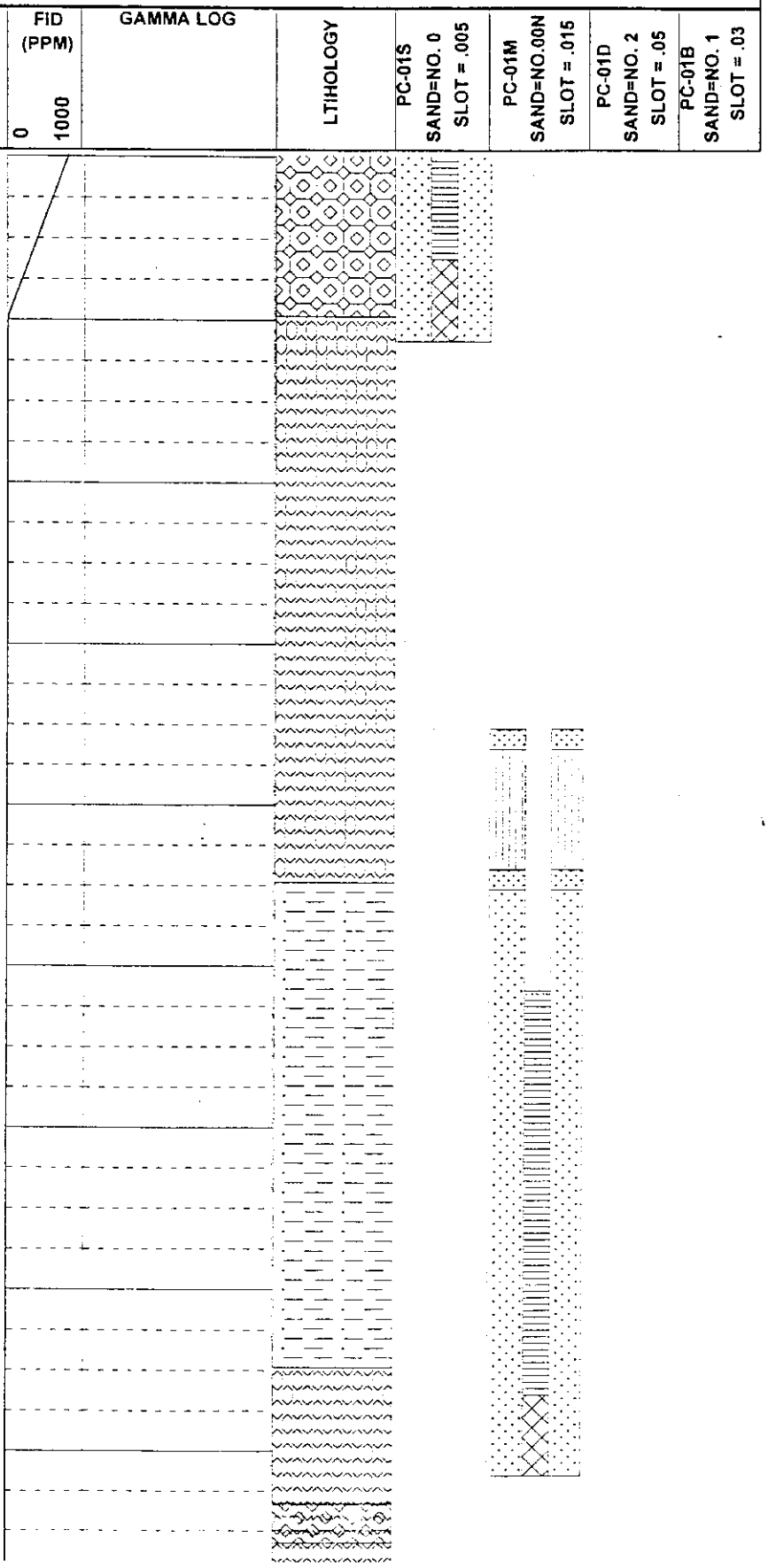
FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
8	SM	fill	0
2	SM-OL	black waste soil - brick, fence, and brake shoes	0
-2	PT	PEAT with roots and wood debris	100
-6	SM	fine gray SAND with 30-40% SILT - Oil residue	100



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-01
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

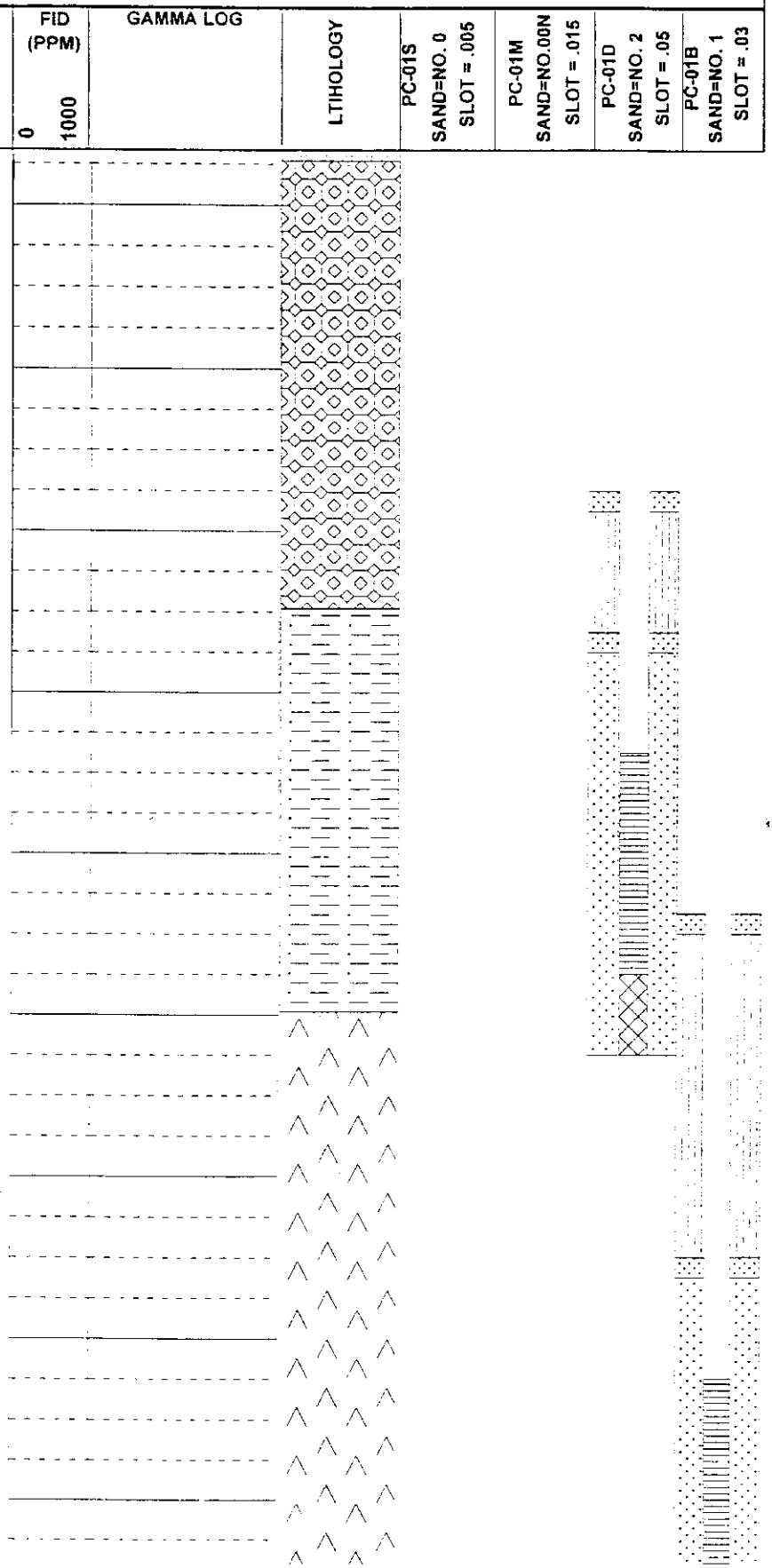
FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-8			
-10			
-12	SP	medium-coarse brown-gray SAND	6
-14			
-16			
	SP	brown-orange medium-corse SAND	5
-18			
-20			
-22	SP	medium brown SAND	4
-24			
-26			
	GP	angular GRAVEL with (15-25%) medium-coarse sand	0
-28			
-30			
-32	GP	angular gravel with medium-coarse SAND (15-25%)	0
-34			
-36			
	SP	brown fine SAND	4
-38			
-40			
-42	SM	fine brown-olive SAND with 15-25% silt	6



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-01
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-44			
-46			
	SM	fine brown-olive SAND with 15-25% silt	0
-48			
-50			
-52	SM	fine brown-olive SAND with 15-25% silt	0
-54			
-56			
	GP	rounded fine GRAVEL with 20-30% medium sand	0
-58			
-60			
-62			
-64		Bedrock	
-66			
-68			
-70			
-72			
-74			
-76			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-01
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG	LTIHOLOGY	PC-01S SAND=NO. 0 SLOT = .005	PC-01M SAND=NO.00N SLOT = .015	PC-01D SAND=NO. 2 SLOT = .05	PC-01B SAND=NO. 1 SLOT = .03
-78										
-80										
-82										
-84										
-86										
-88										
-90										

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-02
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

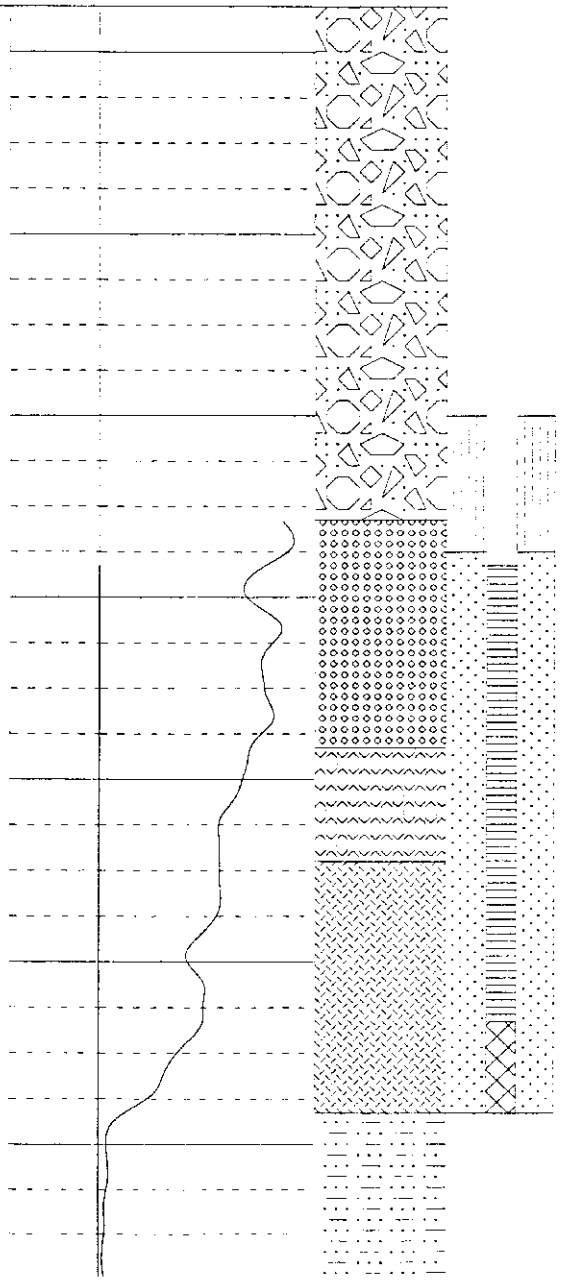
DATE STARTED: 12/09/96
DATE COMPLETED: 01/23/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-02S	898716.84, 633766.62	15.07 FT-MSL	(4.7 to -5.3)
PC-02M	898710.86, 633767.30	15.15 FT-MSL	(-53.1 to -63.1)
PC-02D	898715.33, 633769.73	15.10 FT-MSL	(-77.1 to -92.1)
PC-02B	898713.05, 633763.16	15.20 FT-MSL	(-100.1 to -115.1)

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
16			
14			
12			
10			
8			
6	ML	waste soil - black SILT with 30-40% fine-medium sand and 10% gravel	
4			100
			100
2			100
			100
0	SP	medium-coarse SAND with 10-20% fine subangular gravel	100
			100
-2	PT	dark brown PEAT - large pink roots visable	100
			100
-4			100
			100
-6			100
			100
-8	SP-SM	gray medium-coarse SAND with 5-15% silt / gray medium SAND with 5-15% silt	100
			100
-10			100

FID (PPM) 0 – 1000

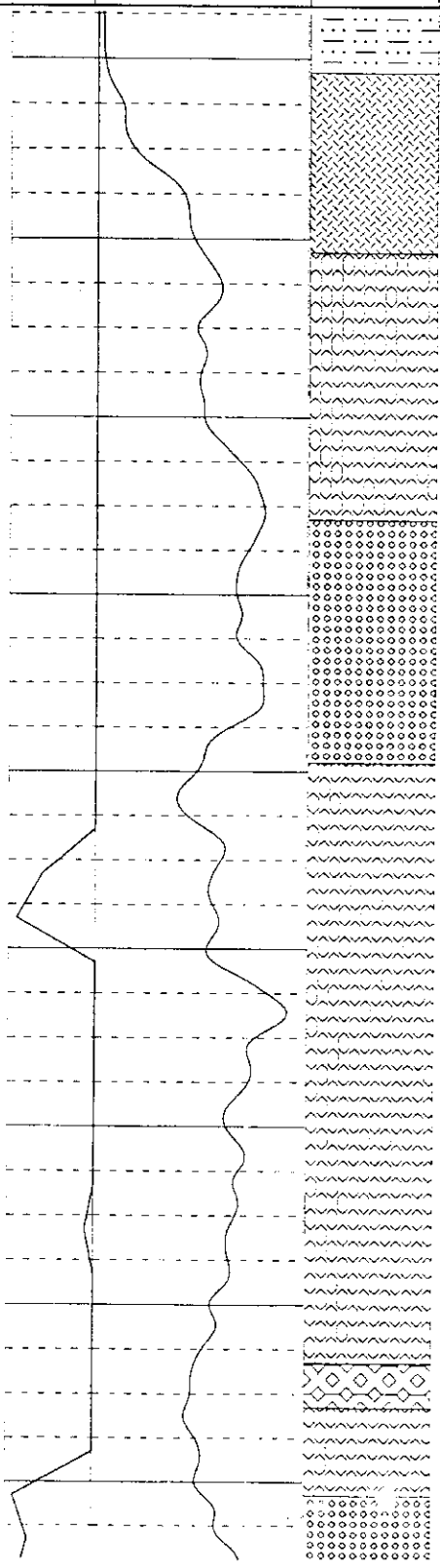
GAMMA LOG 0 – 60



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-02
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-12	PT	dark brown PEAT with large pink roots	100
-14			100
-16	SP	gray medium-coarse SAND	100
-18			100
-20			100
-22	ML	gray SILT with 20-30% fine sand	100
-24			100
-26			100
-28	SP	medium-coarse SAND with 10-20% fine-coarse gravel	100
-30	SP	gray fine-medium SAND	400
-32			100
-34			100
-36	SP	coarse SAND with fine-coarse subangular gravel	100
-38			900
-40	SP	medium gray SAND	100
-42	SM	fine SAND with 20-30% silt	100
	SP	gray coarse SAND with fine subangular gravel	100
-44	ML	gray SILT	84



PC-02S SAND=NO. 0 SLOT = .02

PC-02M SAND=NO.00N SLOT = .015

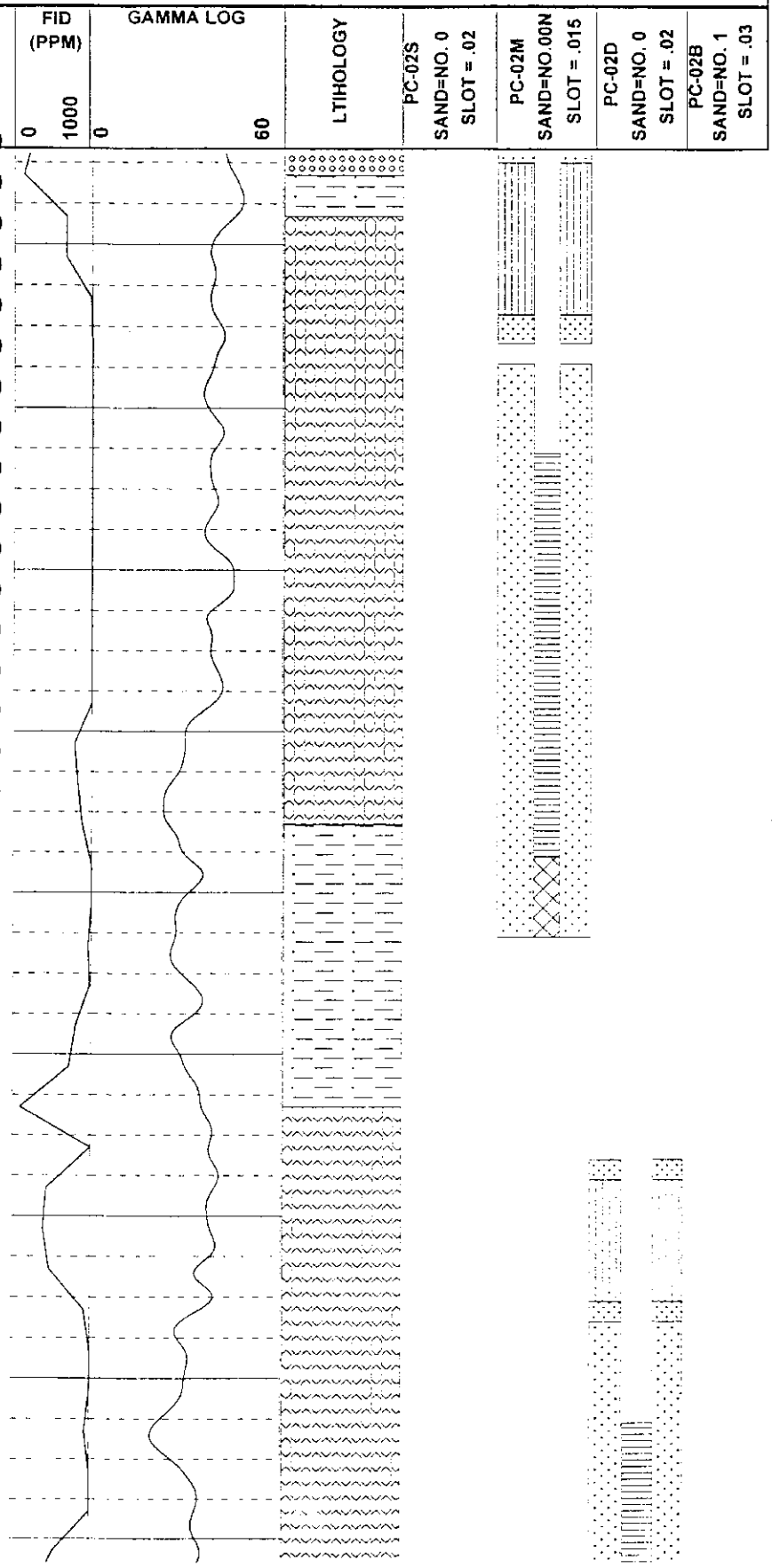
PC-02D SAND=NO. 0 SLOT = .02

PC-02B SAND=NO. 1 SLOT = .03

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-02
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

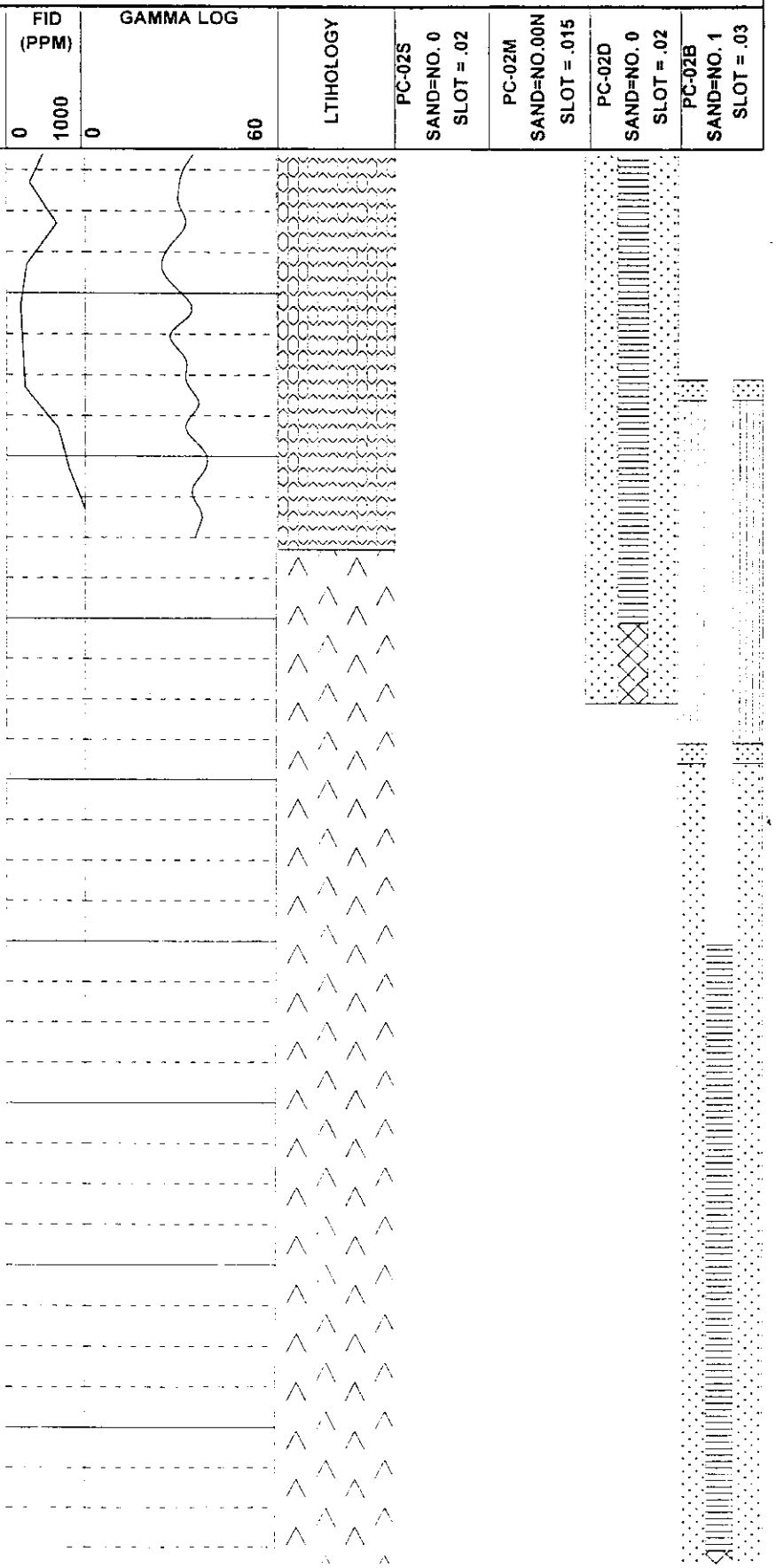
FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-46	GP	coarse GRAVEL	120
	SP	medium-coarse SAND with 10-20% fine gravel	660
-48			660
			980
-50	SP	red-brown fine-medium SAND	100
			100
-52			100
			100
-54	SP	medium-coarse SAND with 15-25% fine subangular gravel	100
			100
-56	SP	medium SAND	100
			100
-58			100
	SP	fine-medium gray SAND	100
-60			780
			820
-62	GP	fine-coarse subangular GRAVEL with 20-30% sand	880
			100
-64			100
			960
-66			980
			800
-68			720
	SP	medium brown SAND	100
-70			100
			440
-72			400
			480
-74	SP	medium-coarse brown SAND with fine subangular gravel	920
			100
-76			100
			940
-78			100
			100
-80			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-02
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
	SP	fine medium brown SAND	540
			300
-82			640
			260
-84			180
	SP	medium-coarse brown SAND with 5-15% fine gravel	210
-86			240
			660
-88			800
			100
-90	BR	bedrock	
-92			
-94			
-96			
-98			
-100			
-102			
-104			
-106			
-108			
-110			
-112			
-114			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-02
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 60	LITHOLOGY	PC-02S SAND=NO. 0 SLOT = .02	PC-02M SAND=NO.00N SLOT = .015	PC-02D SAND=NO. 0 SLOT = .02	PC-02B SAND=NO. 1 SLOT = .03
-116										
-118										
-120										

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-03
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

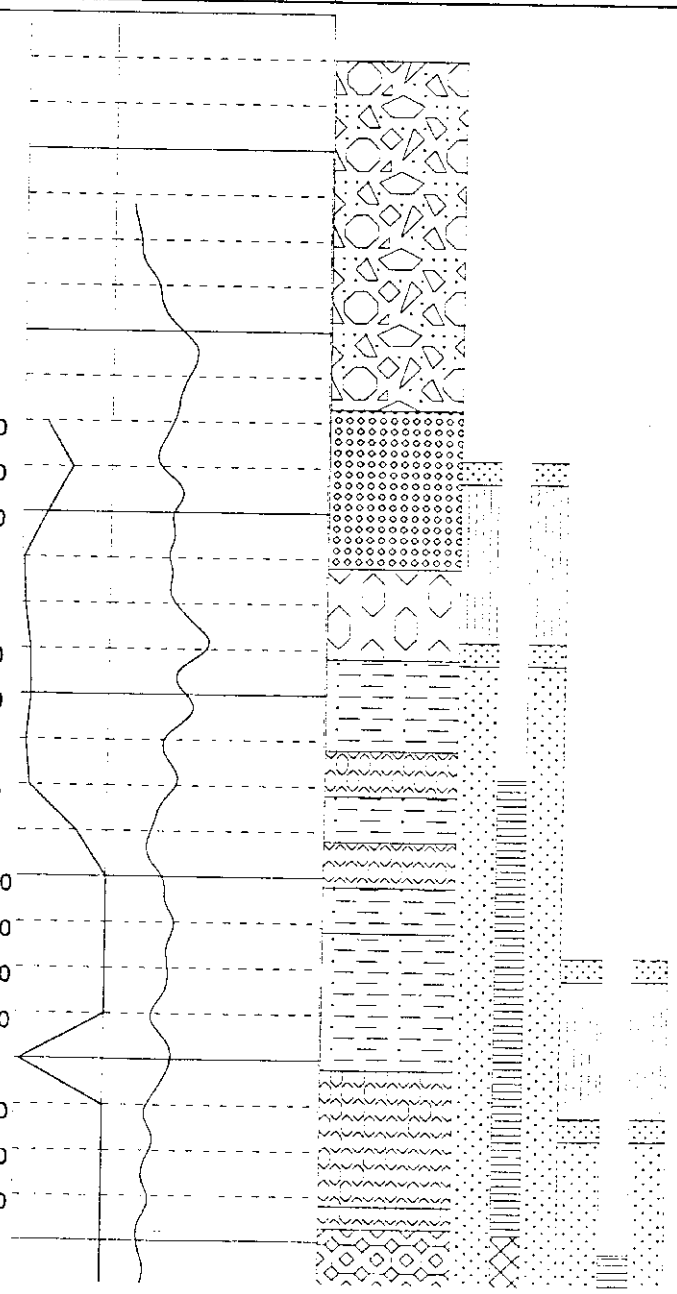
DATE STARTED: 01/03/97
DATE COMPLETED: 01/27/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-03S	898865.40, 634392.21	22.21 FT-MSL	6.2 to -3.8
PC-03D	898868.43, 634389.95	22.22 FT-MSL	-4.2 to -10.2
PC-03B	898868.55, 364393.62	22.22 FT-MSL	-18.6 to -33.6

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
22	SP	void space through sleeve	
20			
18			
16			
14		red crushed brick	260
		waste soil - asphalt, brick, fine-medium gravel	560
12			280
10	GM	fine-coarse subrounded GRAVEL with 20-30% fine-coarse brown sand and 5-15% silt - dry to moist	20
			42
8	GP	fine-coarse SAND with 15-25% fine gravel and 5% coarse gravel	110
			120
6	SP	light brown fine-coarse SAND, dry white powder	70
	GP	fine-coarse GRAVEL with 35-45% fine-coarse sand	120
4	SP	brown fine-medium SAND	660
	GP	fine-coarse GRAVEL with 35-45% medium-coarse sand	1000
2	GP	black stained fine-coarse subrounded GRAVEL with 20-30% medium-coarse sand	1000
			1000
0			1000
	SP	medium black stained SAND	48
-2			1000
			1000
-4	SP	fine-medium brown SAND	1000
	SM	fine-medium brown SAND with 10-20% silt	

FID (PPM) 0 – 1000

GAMMA LOG 30 – 120



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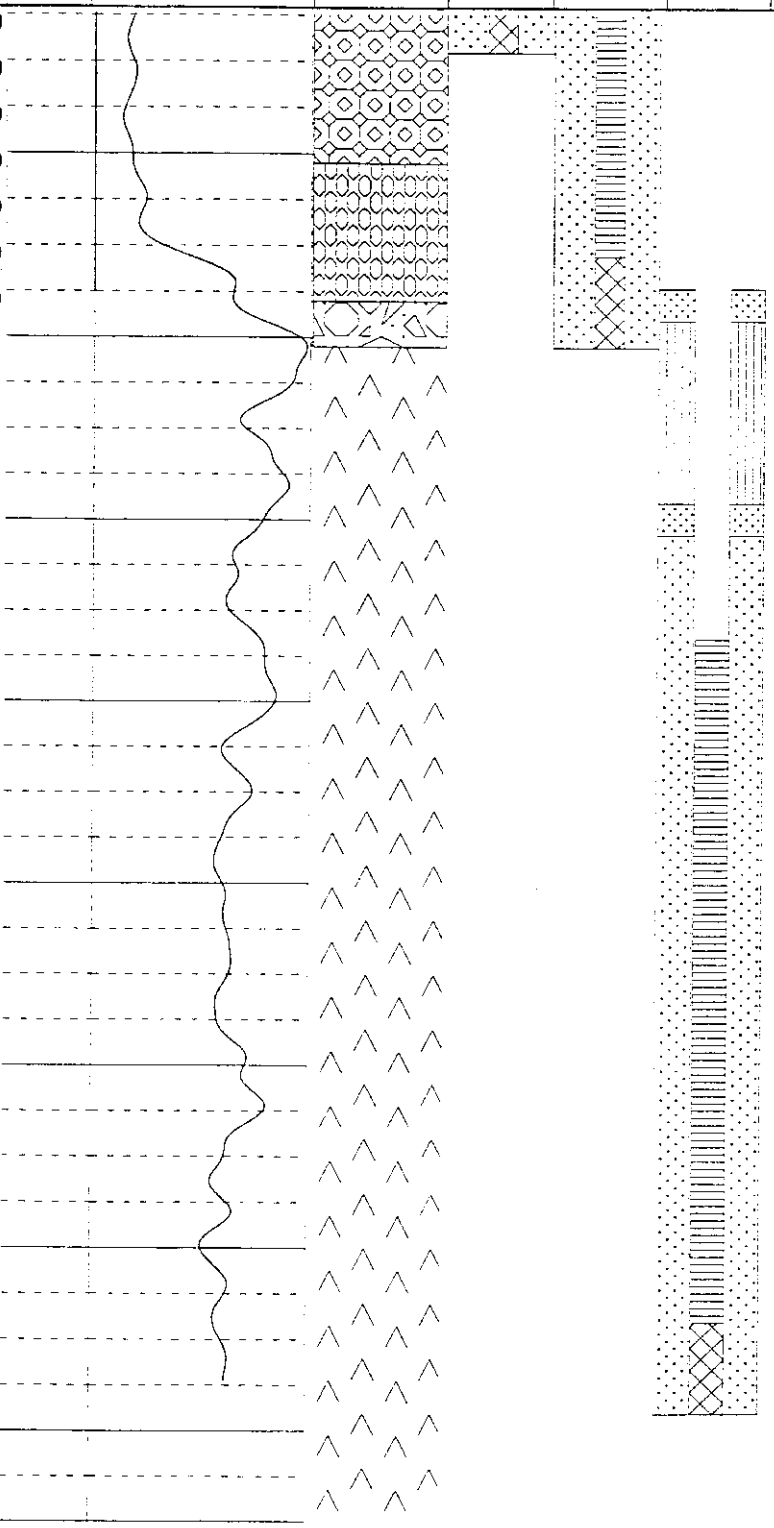
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-03
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-6			1000
			1000
			1000
-8	SP	cobble - medium brown SAND	1000
			1000
-10			1000
		cobbles - pieces of bedrock	1000
-12	BR	bedrock	
-14			
-16			
-18			
-20			
-22			
-24			
-26			
-28			
-30			
-32			
-34			
-36			
-38			



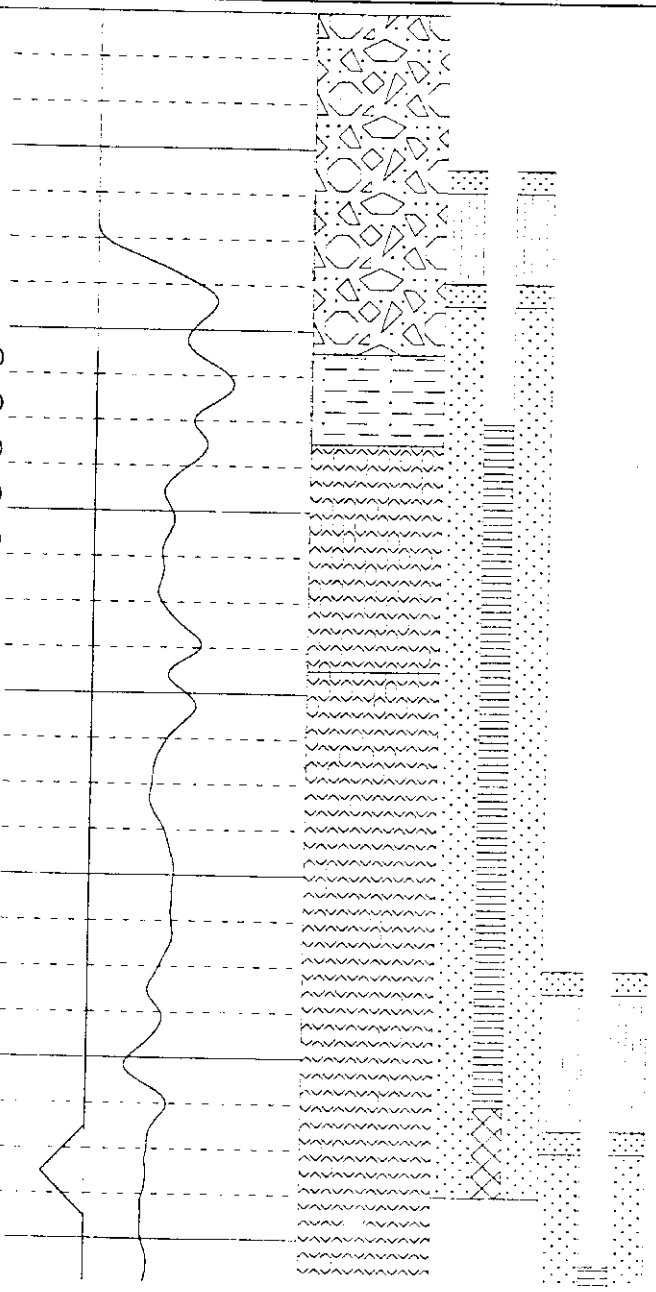
FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-04
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 01/23/97
DATE COMPLETED: 01/25/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-04S	898832.74,634635.14	14.08 FT-MSL	6.0 to -9.0
PC-04D	898827.59,634637.12	14.09 FT-MSL	-12.5 to -22.5
PC-04B	898829.15,634633.58	13.88 FT-MSL	-30.9 to -45.9

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
14		fill	
12			
10			
8	GP	fine-coarse GRAVEL with cobbles and brown fine sand	1000
6	SP	brown medium-coarse SAND with 20-30% fine-coarse gravel	1000
4			1000
2			1000
0	SP	gray medium-coarse SAND with 35-45% fine-coarse gravel	1000
-2			1000
-4			1000
-6			1000
-8			1000
-10			1000
-12			500



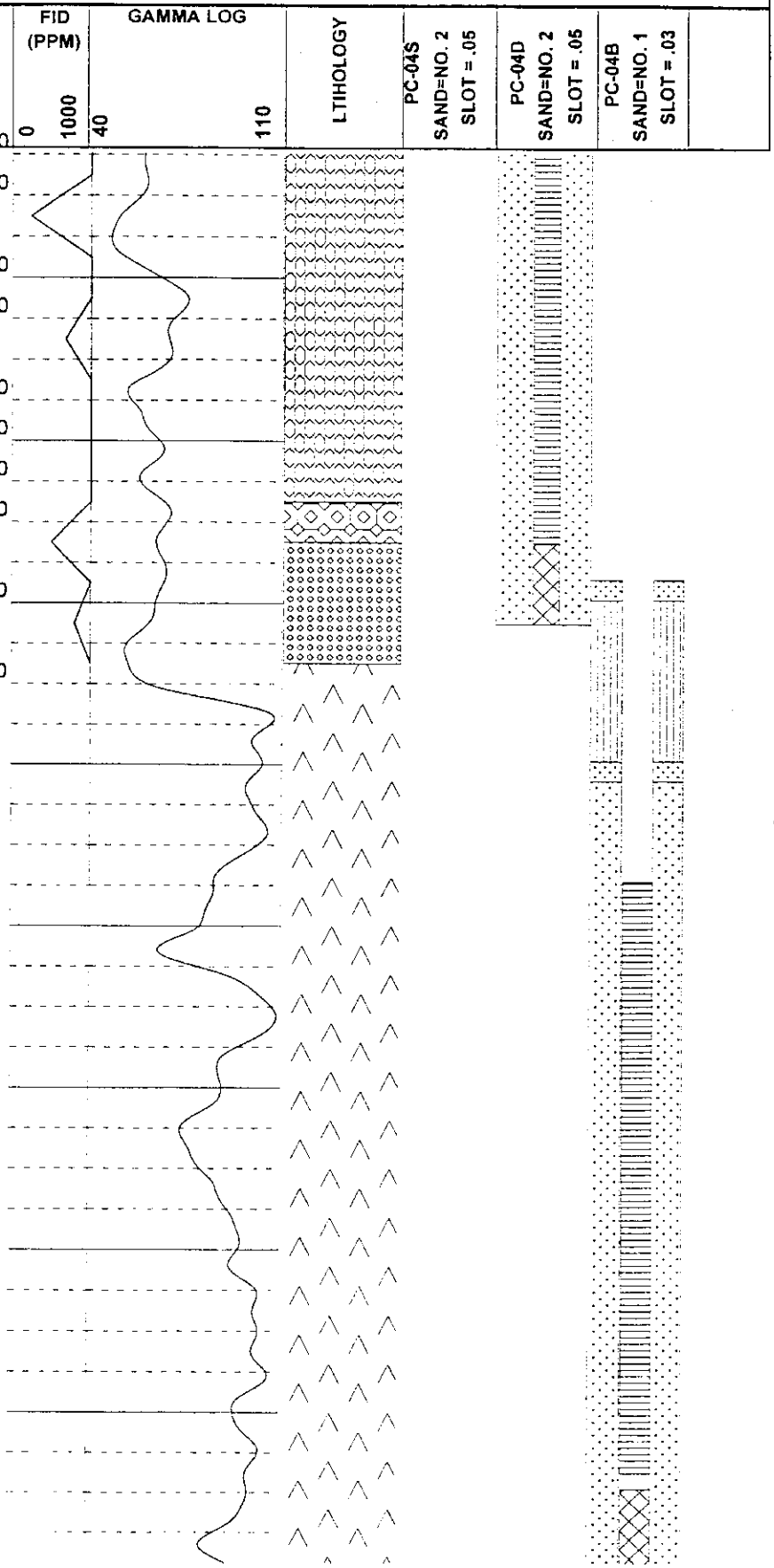
FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-04

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11

STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-14			1000
			240
-16			1000
			1000
-18			680
			1000
-20			1000
			1000
-22	SM	fine-medium gray SAND with 20-30% silt	1000
	ML	gray CLAY with 10-20% fine sand and 5% coarse gravel	500
-24			1000
			800
-26	BR	bedrock	1000
-28			
-30			
-32			
-34			
-36			
-38			
-40			
-42			
-44			
-46			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-04

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11

STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 40 110	LTIHOLOGY	PC-04S SAND=NO. 2 SLOT = .05	PC-04D SAND=NO. 2 SLOT = .05	PC-04B SAND=NO. 1 SLOT = .03
-48									
-50									

FOSTER WHEELER ENVIRONMENTAL CORPORATION
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BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-05
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 07/17/97
DATE COMPLETED: 07/25/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

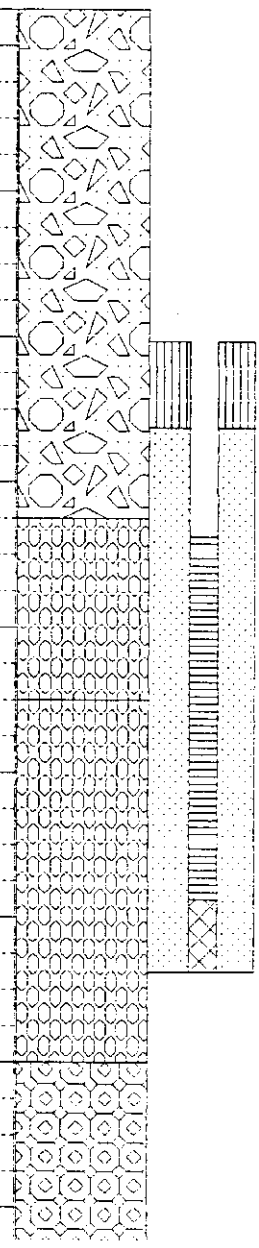
WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-05S	898546.46, 634565.08	20.49 FT-MSL	(6.5 to -3.5)
PC-05M	898542.59, 634557.92	20.63 FT-MSL	(-34.0 to -44.0)
PC-05D	898540.84, 634562.56	20.60 FT-MSL	(-46.0 to -56.0)
PC-05B	898548.56, 634560.24	20.64 FT-MSL	(-68.0 to -83.0)

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
20	SP	clean fill	
18			
16			
14			
12			
10			
8			
6	SP	process waste and SAND	10
4			
2	SP	SAND with gravel, black stained medium-coarse SAND with fine subrounded gravel, trace silt	350
0			
-2			
-4			200
-6			
-8	SM	SAND with silt	6
-10			
-12			

FID (PPM) 0 – 1000

GAMMA LOG

LITHOLOGY



PC-05S SAND=NO. 00N SLOT = .015

PC-05M SAND=NO.00 SLOT = .01

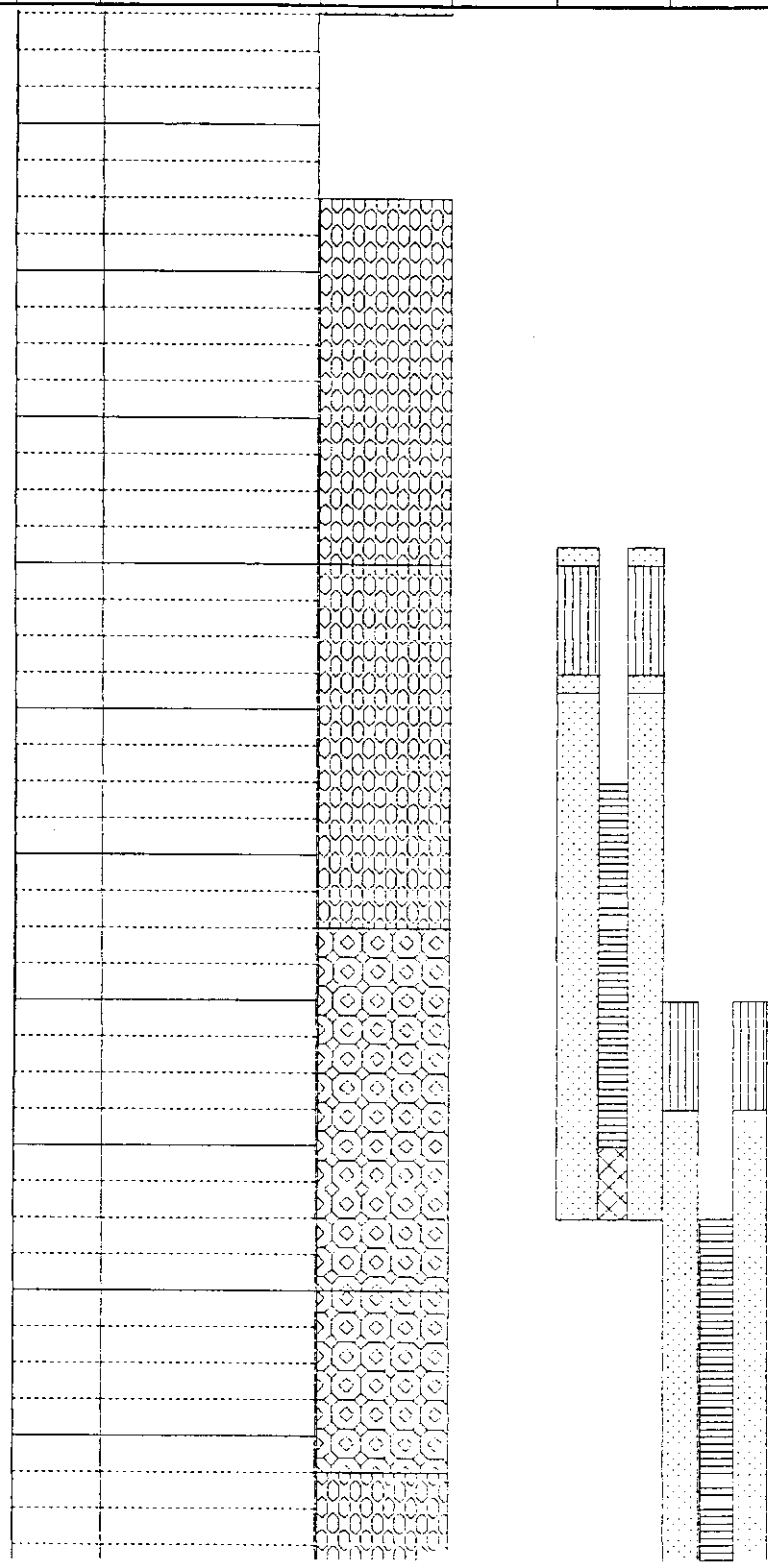
PC-05D SAND=NO. 000 SLOT = .005

PC-05B SAND=NO. 1 SLOT = .03

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-05
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-14			12
-16			
-18	SP	brown medium SAND with 5-10% silt	0
-20			
-22			
-24			0
-26			
-28	SP	SAND; layered gray to brown fine-medium	0
-30			
-32			
-34			
-36			
-38	SM	SAND; medium gray/brown SAND with silt	20
-40			
-42			
-44			1.5
-46			
-48	SM	SAND; 80% gray fine-medium SAND, 20% silt	
-50			
-52			
-54	SP	SAND with gravel	0



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-05
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG	LITHOLOGY	PC-05S SAND=NO. 00N SLOT = .015	PC-05M SAND=NO.00 SLOT = .01	PC-05D SAND=NO. 000 SLOT = .005	PC-05B SAND=NO. 1 SLOT = .03
-56										
-58	SP	SAND with gravel	0							
-60		Bedrock								
-62										
-64										
-66										
-68										
-70										
-72										
-74										
-76										
-78										
-80										
-82										
-84										
-86										
-88										
-90										

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

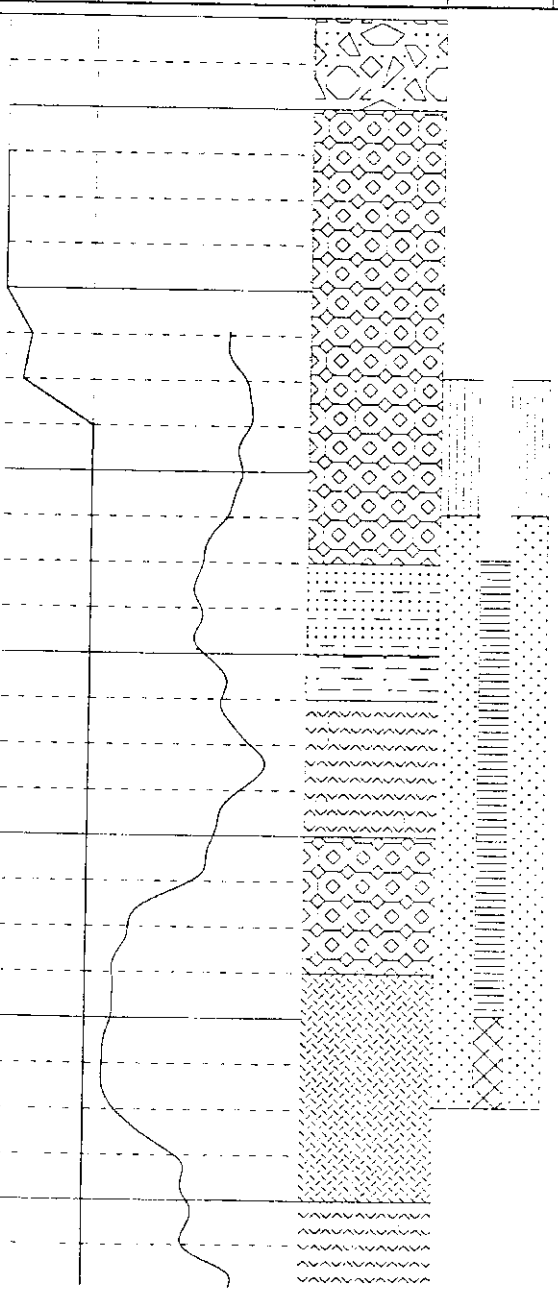
MONITORING WELL CLUSTER: PC-06
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 01/14/97
DATE COMPLETED: 03/04/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-06S	898478.30, 634704.37	17.43 FT-MSL	6.1 to -3.9
PC-06M	898475.50, 634709.12	17.48 FT-MSL	-32.5 to -42.5
PC-06D	898471.78, 634706.36	17.52 FT-MSL	-52.7 to -62.7
PC-06B	898474.39, 634702.26	17.41 FT-MSL	-91.3 to -106.3

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
16	FILL	clean FILL	
14			0
			6.5
			7.5
12			1.5
			300
10			200
			1000
8			1000
			1000
6	SP-SM	brown-black oil stained fine-medium SAND with 5% silt	1000
			1000
4	GP	fine-coarse red/black GRAVEL with 30-40% coarse sand	1000
	SP	black process fill - medium to coarse SAND with 30-40% fine gravel	1000
2			1000
			1000
0	SM	gray fine-medium SAND with 10-20% silt	1000
			1000
-2			1000
	OL	dark brown PEAT with large woody roots	1000
-4			1000
			1000
-6	SP		1000
			1000
-8		gray medium-coarse SAND with 20% silt	1000
			1000

FID (PPM) 0 – 1000; GAMMA LOG 0 – 75



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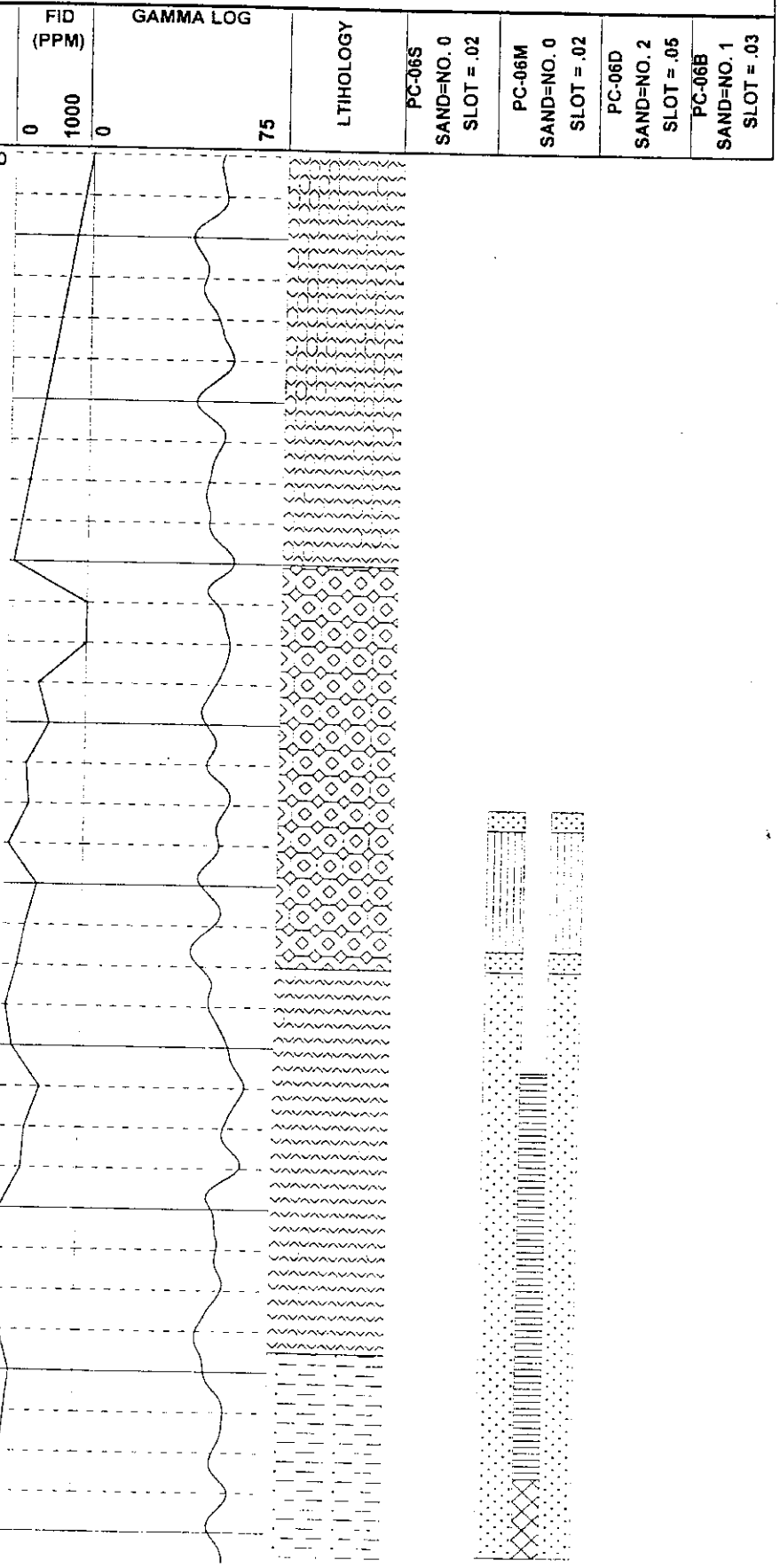
AVENUE
CHUSETTS 02210

MONITORING WELL CLUSTER: PC-06
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

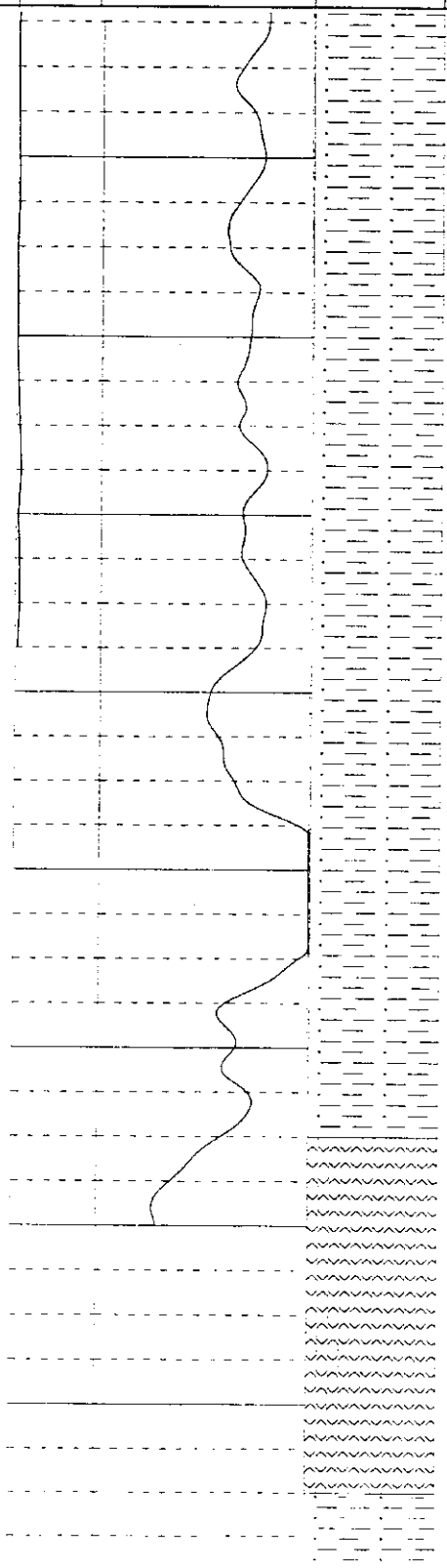
FEE	ASTM CL	LITHOLOGIC DESCRIPTION	FID (PPM)
-10			1000
-12			
-14			
-16		gray medium-coarse SAND	
-18			
-20	SM	fine brown SAND with 25-35% silt aand 5-15% fine gravel	60
-22	SM	brown fine-coarse SAND with 15-25% silt and 15-25% fine-coarse gravel	1000
-24			400
-26			540
-28			260
-30	SP	fine-medium brown-gray SAND	300
-32			50
-34			420
-36	SP	brown medium-coarse SAND with 35-45% fine gravel	280
-38			180
-40	GP	fine-coarse GRAVEL with 10-20% sand and cobbles	50
-42			140
-44			500
			320
			280
			16
			20
			22
			40
			180
			10
			26

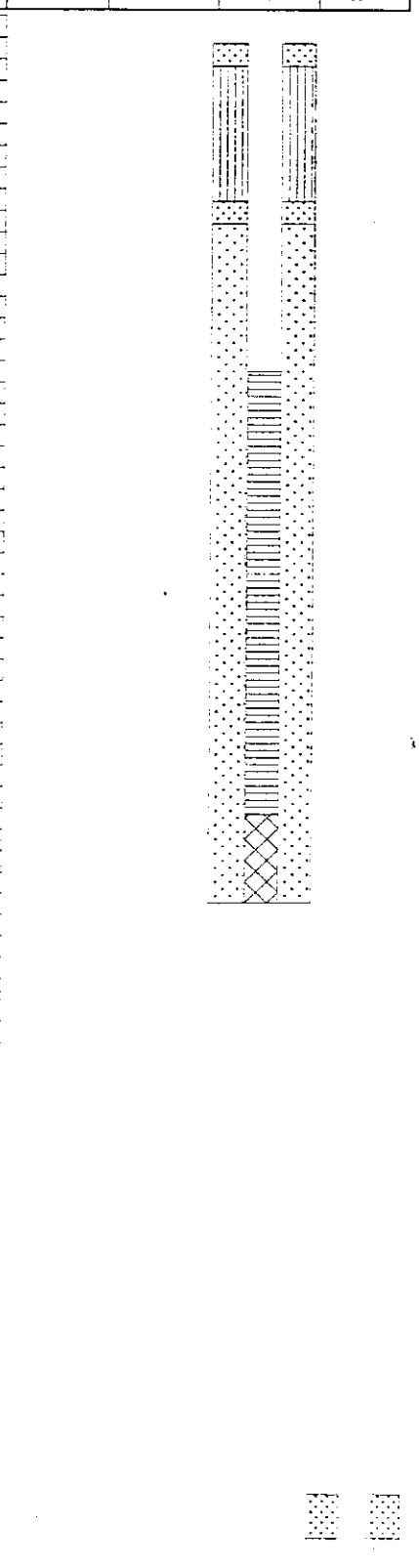


FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-06
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
			15
-46			10
		cobles - round with 10-20% fine-coarse gravel and 5% medium coarse sand	18
-48			20
			24
-50			5
			10
-52			8
	GP	fine-coarse gravel with 35-45% fine medium sand	20
-54			40
		fine-coarse GRAVEL with 10-20% sand, occasional cobble	62
-56			28
			48
-58			50
			30
-60		boulder - gneiss-schist	
-62			
-64			
-66			
-68			
-70	SP		
-72			
-74			
-76		brown medium-coarse SAND with 15-25% rounded fine-coarse gravel	
-78	GP	coarse rounded GRAVEL with 10-20% sand	





FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-06
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 75	LTIHOLOGY	PC-06S SAND=NO. 0 SLOT = .02	PC-06M SAND=NO. 0 SLOT = .02	PC-06D SAND=NO. 2 SLOT = .05	PC-06B SAND=NO. 1 SLOT = .03
-80		weathered bedrock - fractured bedrock fragments with medium-coarse SAND and gravel								
-82	BR	competent bedrock								
-84										
-86										
-88										
-90										
-92										
-94										
-96										
-98										
-100										
-102										
-104										
-106										
-108										
-110										

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-07
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

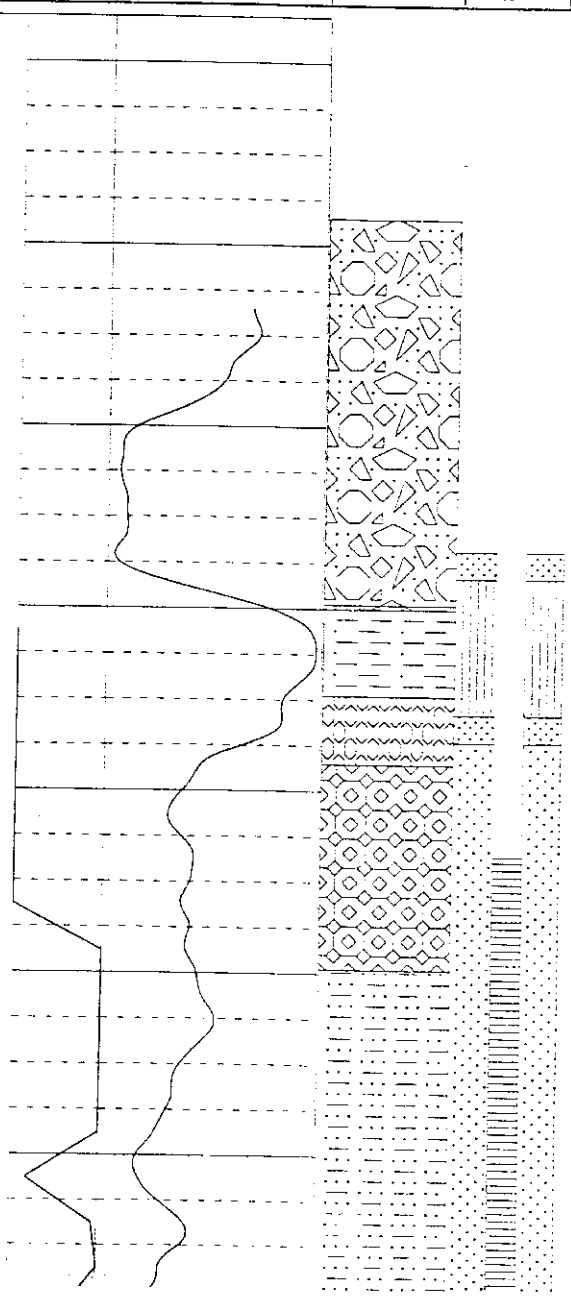
DATE STARTED: 01/27/97
DATE COMPLETED: 01/28/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-07S	898663.09, 634846.40	22.60 FT-MSL	(6.6 to -8.4)

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
24			
22			
20	SP	FILL	
18			
16			
14			
12	GP	fine-medium GRAVEL and fine brown SAND, 10-15% silt	0
10	SP	brown fine SAND, roots, 10% silt	0
			0
8	SM	brown-tan fine SAND with 15-20% silt, roots	0
			0
6			0
	SM	fine gray SAND, 20% silt	0
4	SP	gray medium-coarse SAND, 10% subrounded gravel	100
			100
2			100
			100
0	SP	brown medium SAND with 20% medium-fine gravel	100
	SP	gray fine SAND	180
-2	SP	gray medium SAND with 10% subrounded gravel	940

FID (PPM) 0 – 1000

GAMMA LOG 30 – 120



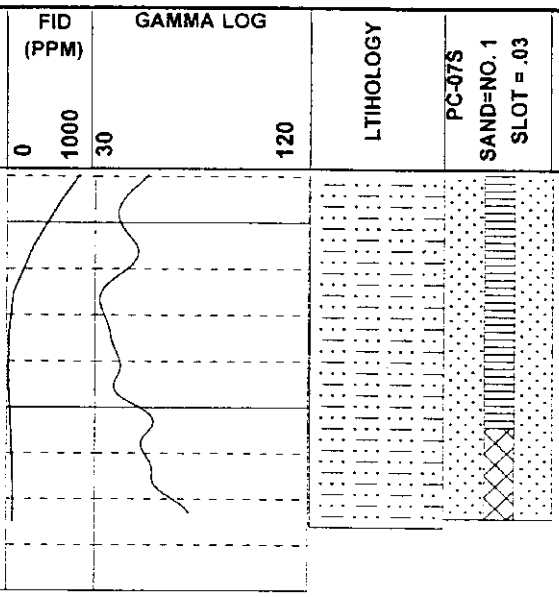
LITHOLOGY

PC-07S SAND=NO. 1 SLOT = .03

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER:
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-4	SP	medium to fine gray SAND, 10% gravel	620
			300
-6			80
			20
-8	SP	medium gray SAND, 10% gravel	20
	SP	fine tan SAND	50
-10			70
-12			70



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-07
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

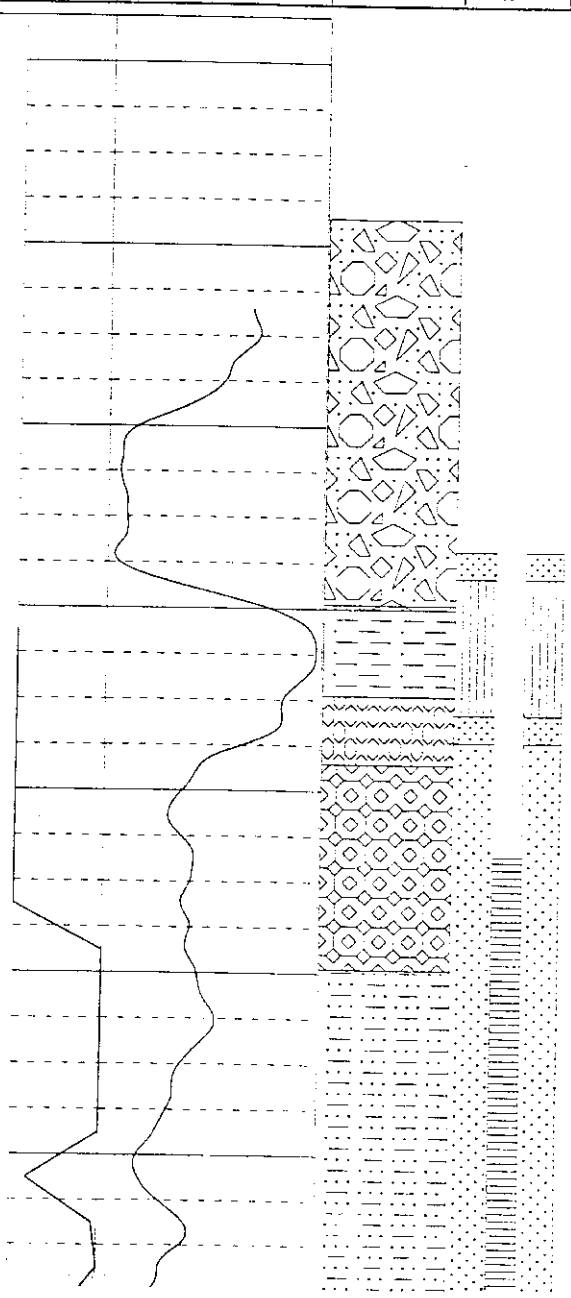
DATE STARTED: 01/27/97
DATE COMPLETED: 01/28/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-07S	898663.09, 634846.40	22.60 FT-MSL	(6.6 to -8.4)

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
24			
22			
20	SP	FILL	
18			
16			
14			
12	GP	fine-medium GRAVEL and fine brown SAND, 10-15% silt	0
10	SP	brown fine SAND, roots, 10% silt	0
			0
8	SM	brown-tan fine SAND with 15-20% silt, roots	0
			0
6			0
	SM	fine gray SAND, 20% silt	0
4	SP	gray medium-coarse SAND, 10% subrounded gravel	100
			100
2			100
			100
0	SP	brown medium SAND with 20% medium-fine gravel	100
	SP	gray fine SAND	180
-2	SP	gray medium SAND with 10% subrounded gravel	940

FID (PPM) 0 – 1000

GAMMA LOG 30 – 120



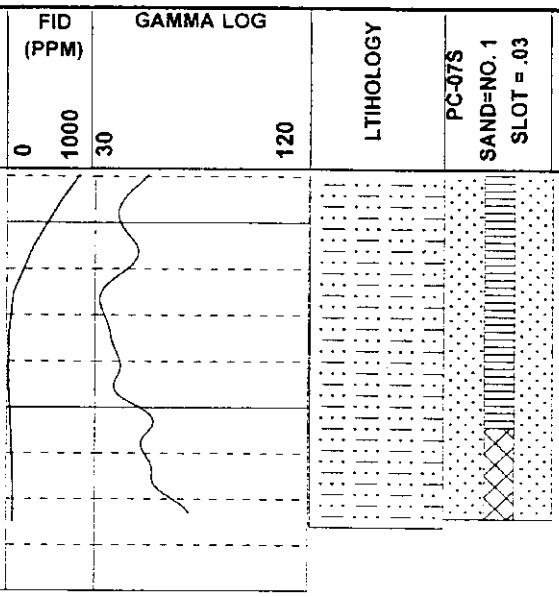
LITHOLOGY

PC-07S SAND=NO. 1 SLOT = .03

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER:
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-4	SP	medium to fine gray SAND, 10% gravel	620
			300
-6			80
			20
-8	SP	medium gray SAND, 10% gravel	20
	SP	fine tan SAND	50
-10			70
-12			70



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

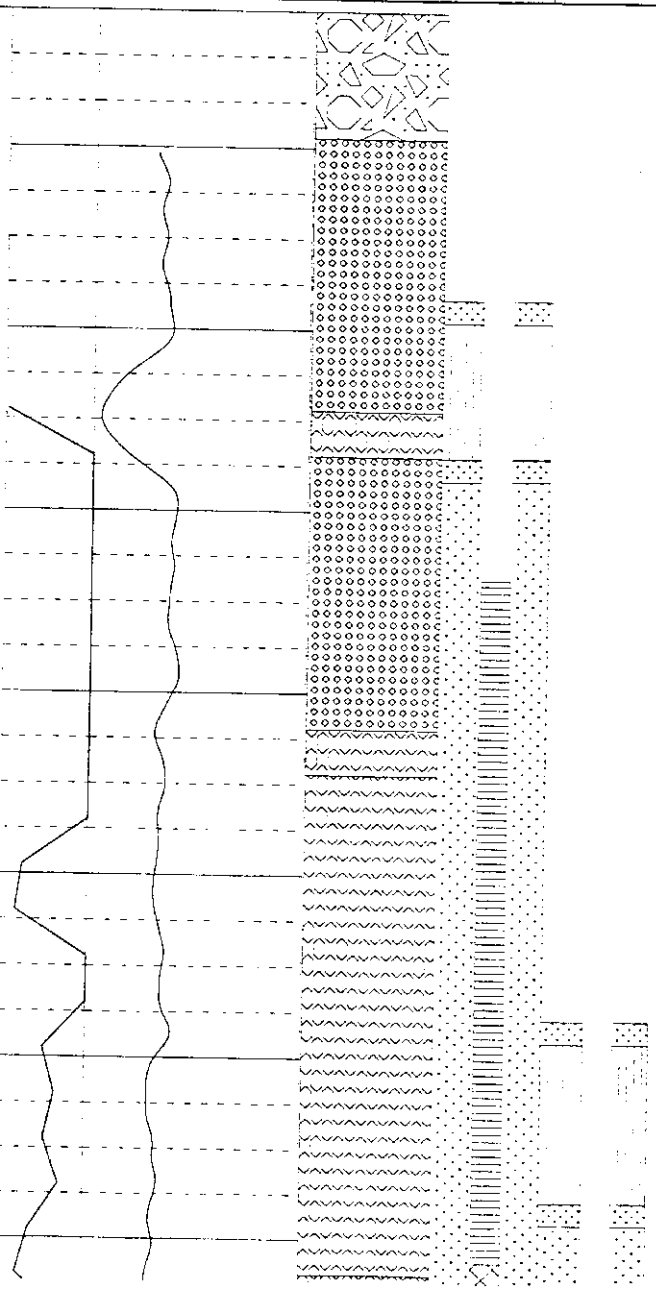
MONITORING WELL CLUSTER: PC-08
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 12/07/96
DATE COMPLETED: 02/06/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-08S	898367.63, 633860.22	19.22 FT-MSL	(6.5 to -8.5)
PC-08D	898365.82, 633864.24	19.31 FT-MSL	(-10.1 to -20.1)
PC-08B	898370.73, 633863.49	19.22 FT-MSL	(-28.3 to -43.3)

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
18			
16			
14			
12			
10	SP	brown medium-coarse SAND (fill)	30
	ML	black process fill with fabric strings - silt/fine sand with high organic content	100
8			100
			100
6			100
			100
4			100
	SP	gray-brown SAND with concrete fragments	100
2			100
	SP	brown-gray medium-coarse SAND with 40-50% fine coarse subangular gravel	100
0			260
			180
-2			100
			100
-4			520
			660
-6			540
			720
-8			380

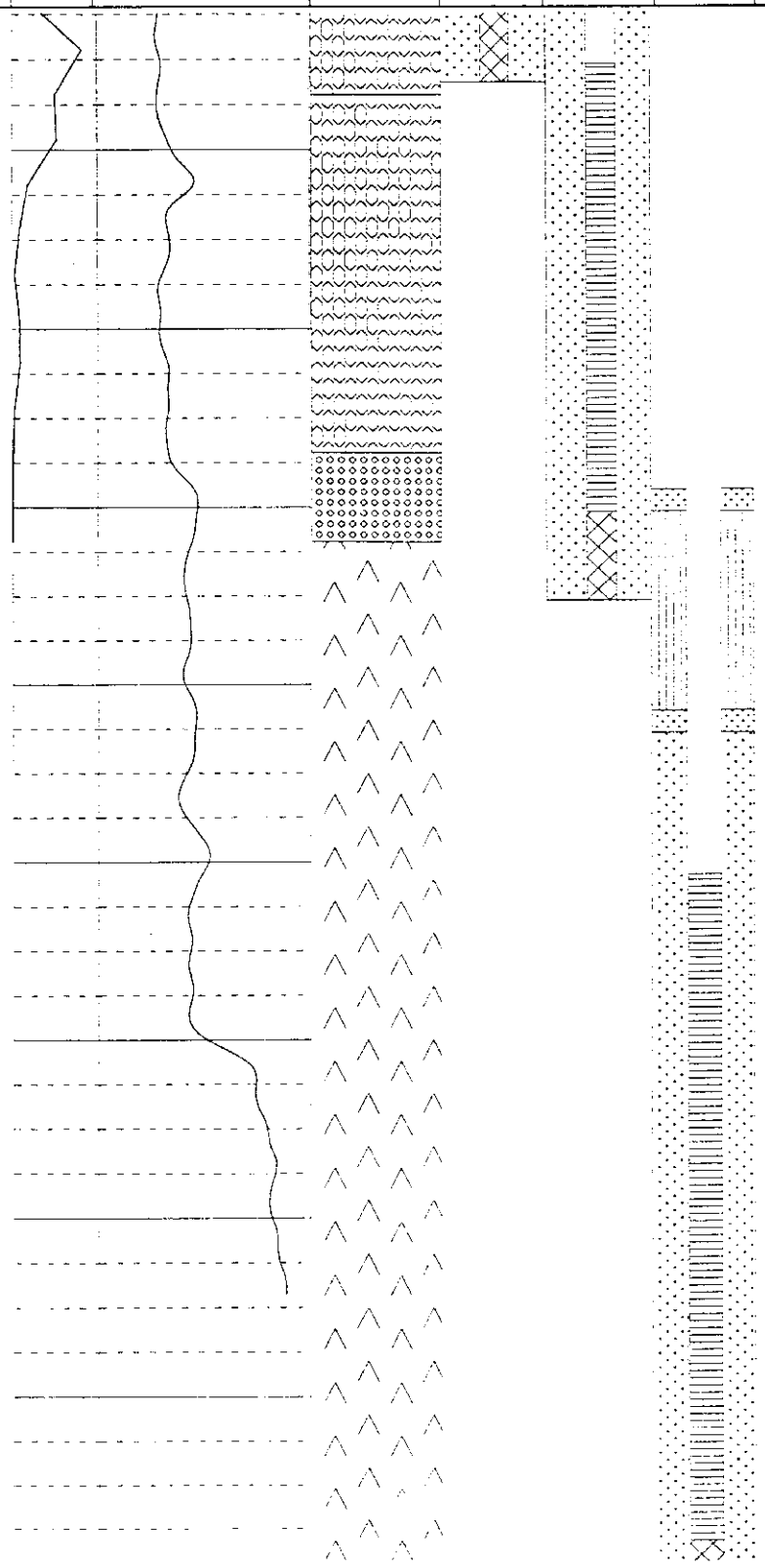
FID (PPM) 0 – 1000; GAMMA LOG 0 – 150



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-08
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
	SP	brown-gray medium-coarse SAND	240
-10			820
	SP	brown medium-coarse SAND with 25-35% fine-coarse gravel	500
-12			520
			180
-14			84
			28
-16			87
			89
-18			24
	ML	gray clay/silt - weathered bedrock fragments	10
-20			0
	BR	Bedrock	5
-22			
-24			
-26			
-28			
-30			
-32			
-34			
-36			
-38			
-40			
-42			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-08
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 150	LTIHOLOGY	PC-08S SAND=NO. 2 SLOT = .05	PC-08D SAND=NO. 1 SLOT = .03	PC-08B SAND=NO. 1 SLOT = .03
-44									
-46									
-48									
-50									

FOSTER WHEELER ENVIRONMENTAL CORPORATION
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BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-09
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 12/08/96
DATE COMPLETED: 02/09/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

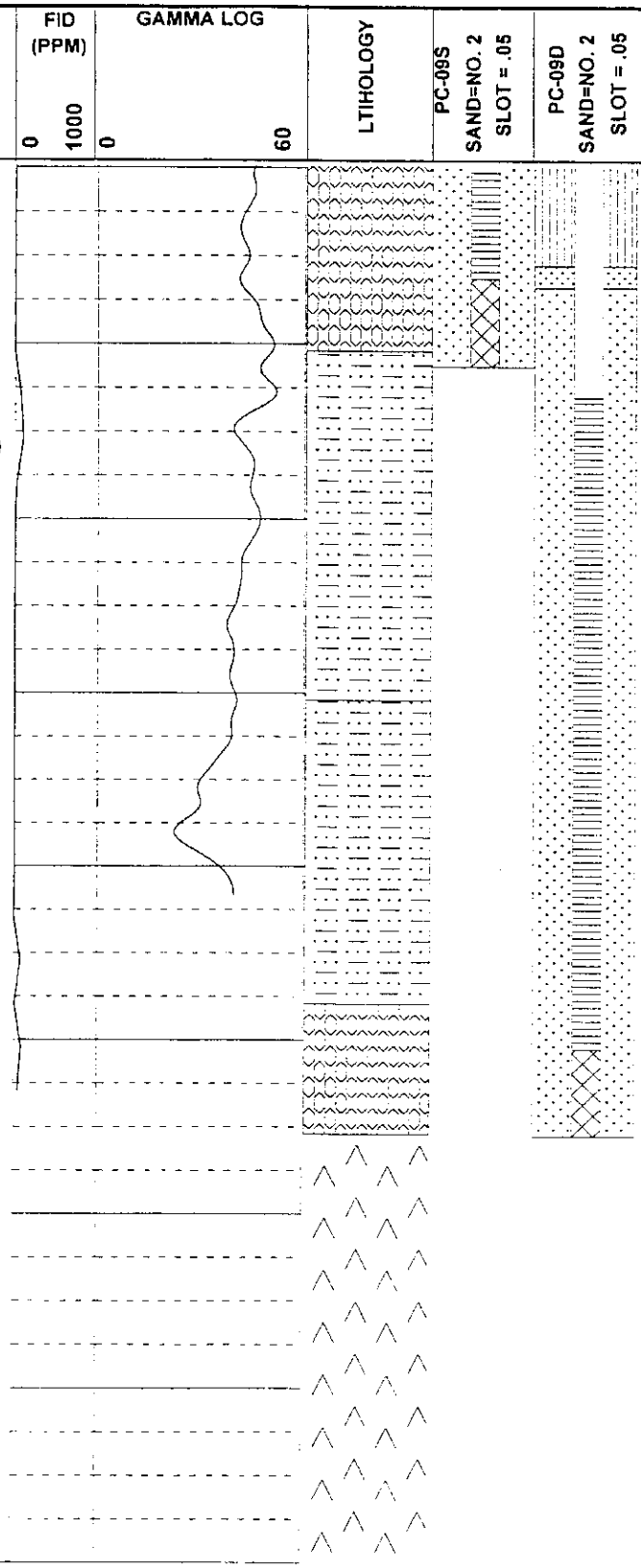
WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-09S	898309.32, 633551.04	19.49 FT-MSL	(4.5 to -10.5)
PC-09D	898312.40, 633552.97	19.41 FT-MSL	(-13.2 to -28.2)

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 60	LITHOLOGY	PC-09S SAND=NO. 2 SLOT = .05	PC-09D SAND=NO. 2 SLOT = .05		
	SP	clean fill								
18										
16										
14										
12										
10	ML	waste soil								
8										
6										
4	SP	fine-medium brown-gray SAND								
2			8							
0			0							
	SP	gray medium-coarse SAND with 15-25% fine subangular gravel	2							
-2			0							
			0							
-4			10							
			10							
-6	SP	brown fine-medium SAND	6							
			4							

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-09
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-8			8
			0
-10			0
			0
-12	SP-SM	brown fine-coarse SAND with roots and black plastic debris and 5-15% silt	0
			72
-14			100
			20
-16			0
			0
-18			0
			1.9
-20	SP-SM	gray medium-coarse SAND with 20-30% fine subangular gravel and 5-15% silt	10
			0.5
-22			0
			7.5
-24			9.2
			2.5
-26			82
	SP	brown medium-coarse SAND with 20-30% fine gravel	13
-28			92
			52
-30	BR	BR	15
-32			
-34			
-36			
-38			
-40			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-10
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

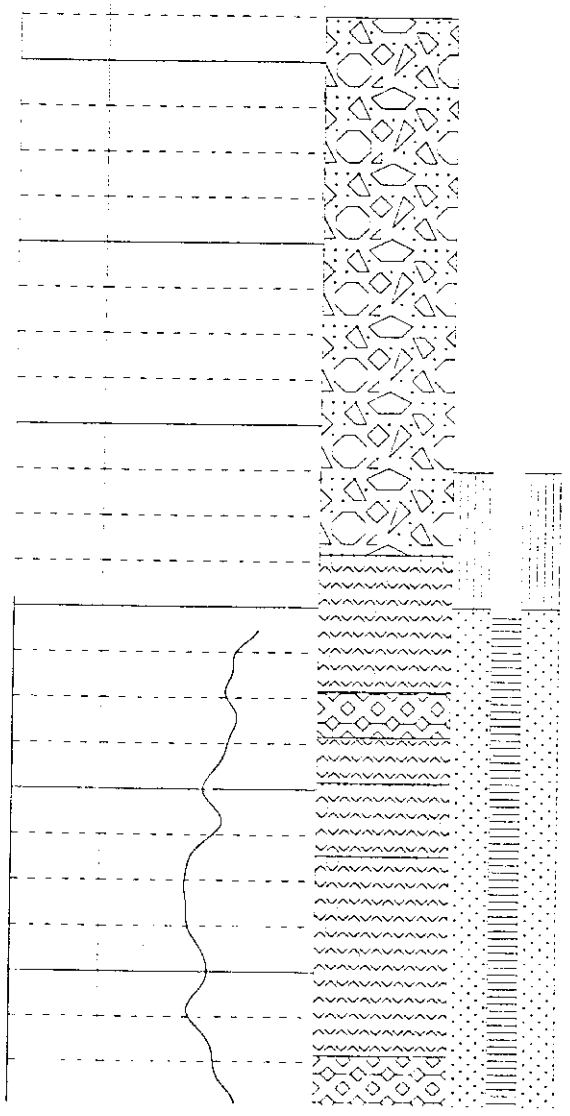
DATE STARTED: 12/13/96
DATE COMPLETED: 01/07/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-10S	897888.97, 634232.13	20.72 FT-MSL	(15.75 to 0.75)
PC-10M	897885.95, 634229.0	20.71 FT-MSL	(-12.07 to -22.07)
PC-10D	897890.24, 634226.86	20.73 FT-MSL	(-41.45 to -56.45)
PC-10B	897892.24, 634230.06	20.73 FT-MSL	(-69.45 to -84.45)

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
24			
22			
20		clean FILL	
18			
16			
14			
12			
10			
8	SP	fine-coarse brown-black SAND with 5-15% subangular gravel	0
			0
6	SM	black process fill with string material	0
	SP	fine-medium SAND with 20-30% fine-coarse gravel	0
4	SP	fine-medium gray SAND with 15-25% fine-coarse gravel	0
		fine-medium brown SAND	0
2	SP		0
			0
0			0
			0
-2	SM	fine-medium SAND with 20-30% silt	0

FID (PPM) 0 – 1000

GAMMA LOG 20 – 160



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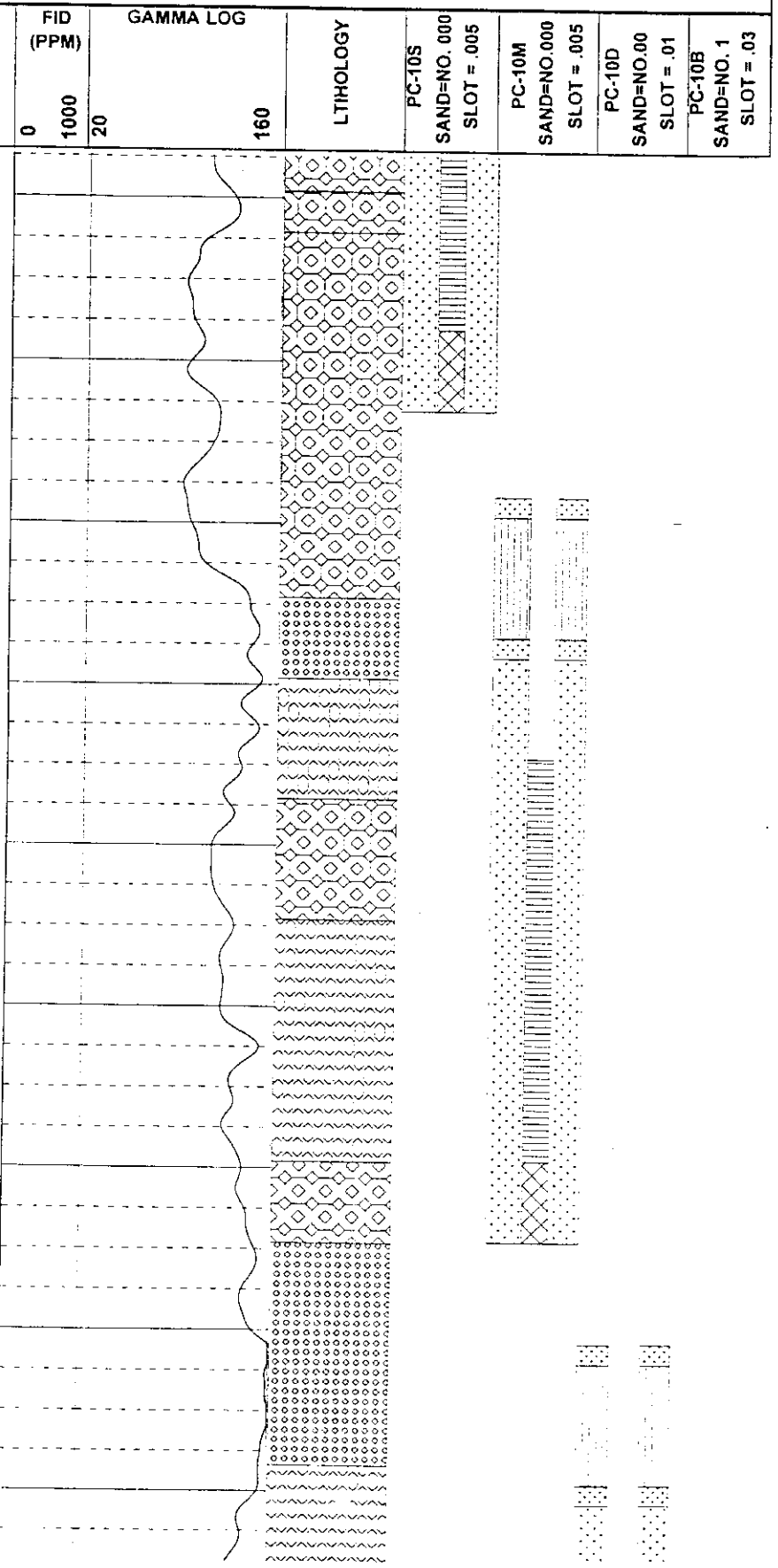
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-10
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
			0
-4	SM	fine brown SAND with 30-40% silt	0
	SM	brown fine-medium SAND with 15-25% silt	0
-6			0
			0
-8			0
			0
-10			0
			0
-12			0
			0
-14	ML	brown SILT with 30-40% fine sand -15.84 brown-gray fine-medium SAND	0
			3.5
-16	SP		0
			9
-18			4
	SM	fine brown SAND with 30-40% brown silt	3.5
-20			2.5
			0
-22	SP	brown medium-coarse SAND with 20-30% fine-coarse subangular gravel	0
			0
-24			1.5
			4.5
-26			1.2
			0.5
-28	SP-SM	brown fine-coarse SAND with 5-15% silt	0
			0
-30	ML	brown SILT with 15-25% fine sand	0
			0
-32			0
			0
-34			0
			4
-36	SP	gray-brown medium-coarse SAND with 30-40% fine-coarse gravel	8.5
			6.5



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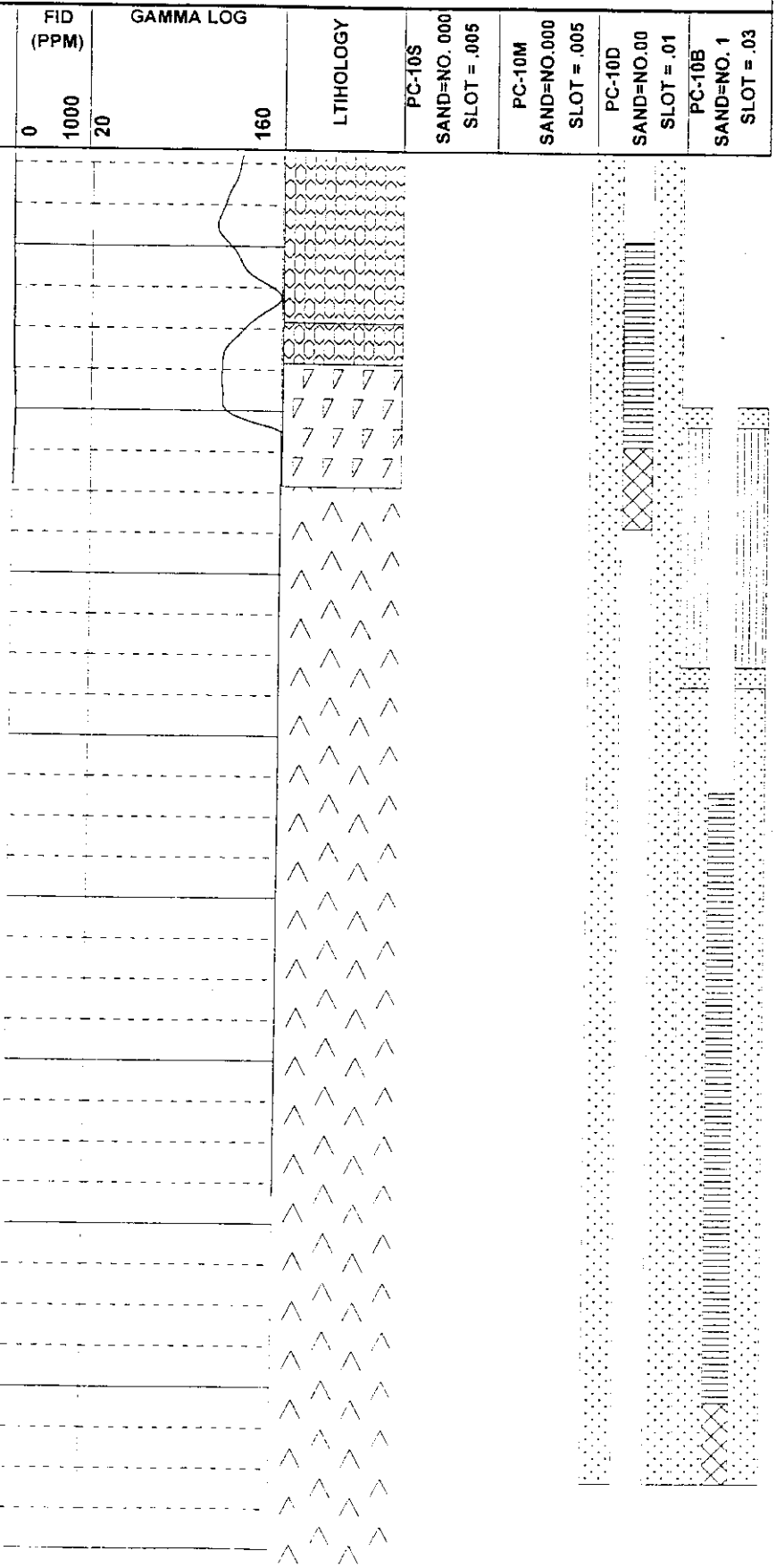
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-10
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-38			0
			2
-40			0
			9
-42	SP	red-brown fine-medium SAND	10
	MH	blue-gray clay with fragments of weathered bedrock	15
-44			38
			22
-46	BR	competent bedrock	14
-48			
-50			
-52			
-54			
-56			
-58			
-60			
-62			
-64			
-66			
-68			
-70			
-72			



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BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-10
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 20 160	LITHOLOGY	PC-10S SAND=NO. 000 SLOT = .005	PC-10M SAND=NO.000 SLOT = .005	PC-10D SAND=NO.00 SLOT = .01	PC-10B SAND=NO. 1 SLOT = .03
-74										

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-11
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 01/29/97
DATE COMPLETED: 02/18/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-11S	898019.53, 633793.91	22.43 FT-MSL	5.9 to -9.1
PC-11M	898015.74, 633792.76	22.46 FT-MSL	-13.3 to -23.3
PC-11D	898018.08, 633798.33	22.41 FT-MSL	-28.3 to -38.3
PC-11B	898014.83, 633797.35	22.51 FT-MSL	-46.9 to -61.9

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 200	LITHOLOGY	PC-11S SAND=NO.000 SLOT=.005	PC-11M SAND=NO.000 SLOT=.005	PC-11D SAND=NO.000 SLOT=.005	PC-11B SAND=NO. 1 SLOT = .03
22										
20	FILL	Tilcon material								
18										
16			1000							
			1000							
14			1000							
			1000							
12	DC FILL	DC divot fill	1000							
			10							
			4							
10	SP	dark gray medium SAND with medium to fine subrounded gravel (DC backfill)	290							
			130							
8			1000							
6	ML	black SILT, waste soil with brake shoes	1000							
			1000							
4										
2			400							
	SM	black fine-medium SAND with 10-40% silt	1000							
0			400							
	SM	gray fine SAND with 20-30% silt	100							
-2			200							
			220							
-4			300							

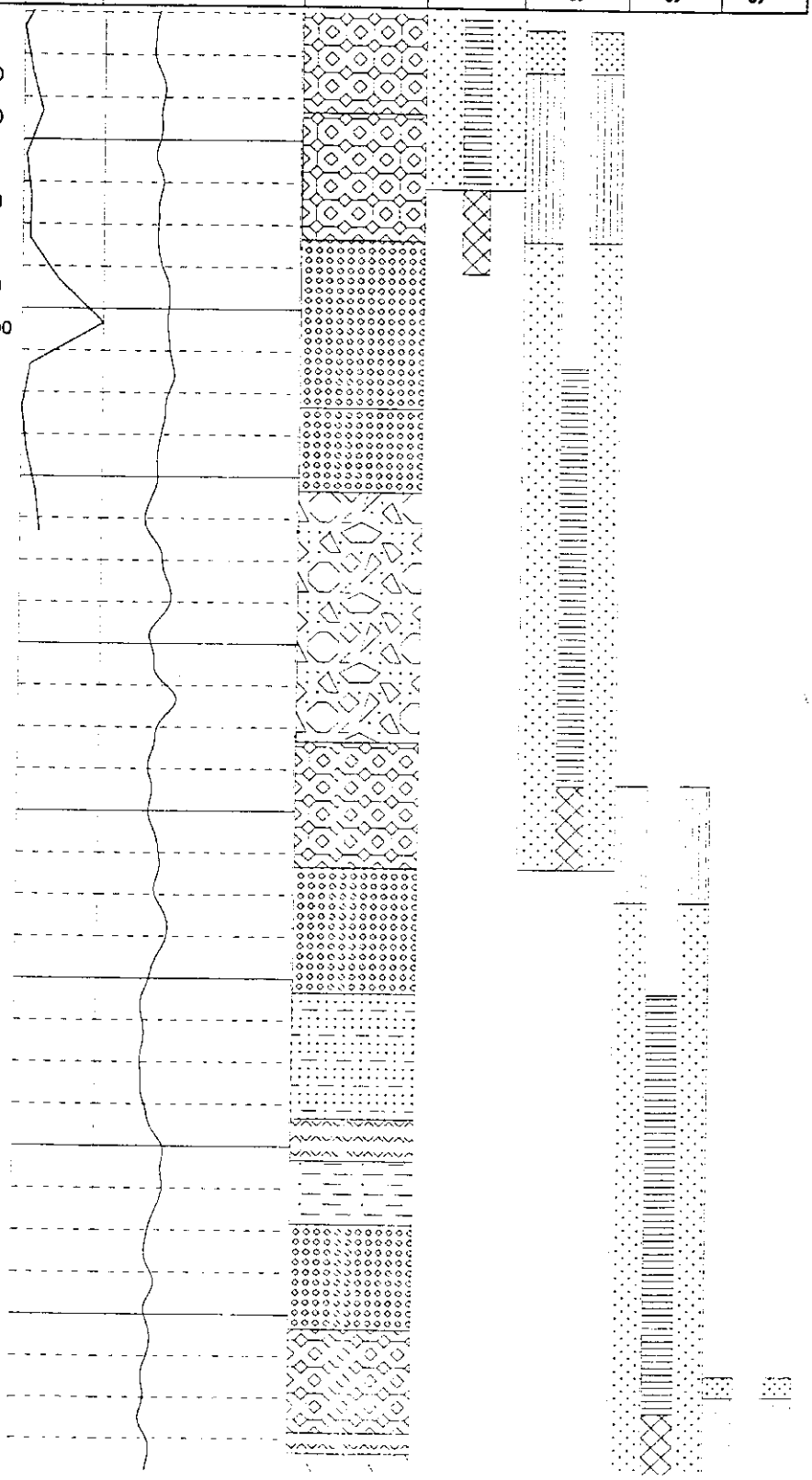
FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-11

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11

STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-6			10
			100
-8	SM	black/gray medium SAND with 20-25% silt	240
			40
-10			100
	ML	tan/gray fine SILT with 35-45% sand	90
-12			450
			1000
-14			100
	ML	tan/gray fine SILT with 15-25% sand	6
-16			60
	CO	cobbles with 20% gray silt and 10% medium-coarse subrounded gravel	180
-18			240
-20			
-22	SM	tan-brown fine-medium SAND, cobbles to 41' and 30-40% silt	
-24			
-26	ML	tan-brown SILT with 30-40% sand	
-28	SP-SM	fine-medium tan/brown SAND with 10% silt	
-30			
-32	SP	fine-coarse brown SAND	
	GP	fine-medium subrounded GRAVEL and coarse to medium orange-brown SAND	
-34	ML	tan-gray SILT with 10-20% fine sand	
-36	SM	fine tan/gray SAND with 20-30% silt	
-38	SP	tan-brown fine-coarse SAND with 30% fine-medium rounded gravel	
		Bedrock	



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470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-11

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11

STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 200	LTIHOLOGY	PC-11S SAND=NO.000 SLOT=.005	PC-11M SAND=NO.000 SLOT=.005	PC-11D SAND=NO.000 SLOT=.005	PC-11B SAND=NO. 1 SLOT = .03
-40										
-42										
-44										
-46										
-48										
-50										
-52										
-54										
-56										
-58										
-60										
-62										
-64										
-66										
-68										
-70										

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-12
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 03/05/97
DATE COMPLETED: 07/22/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

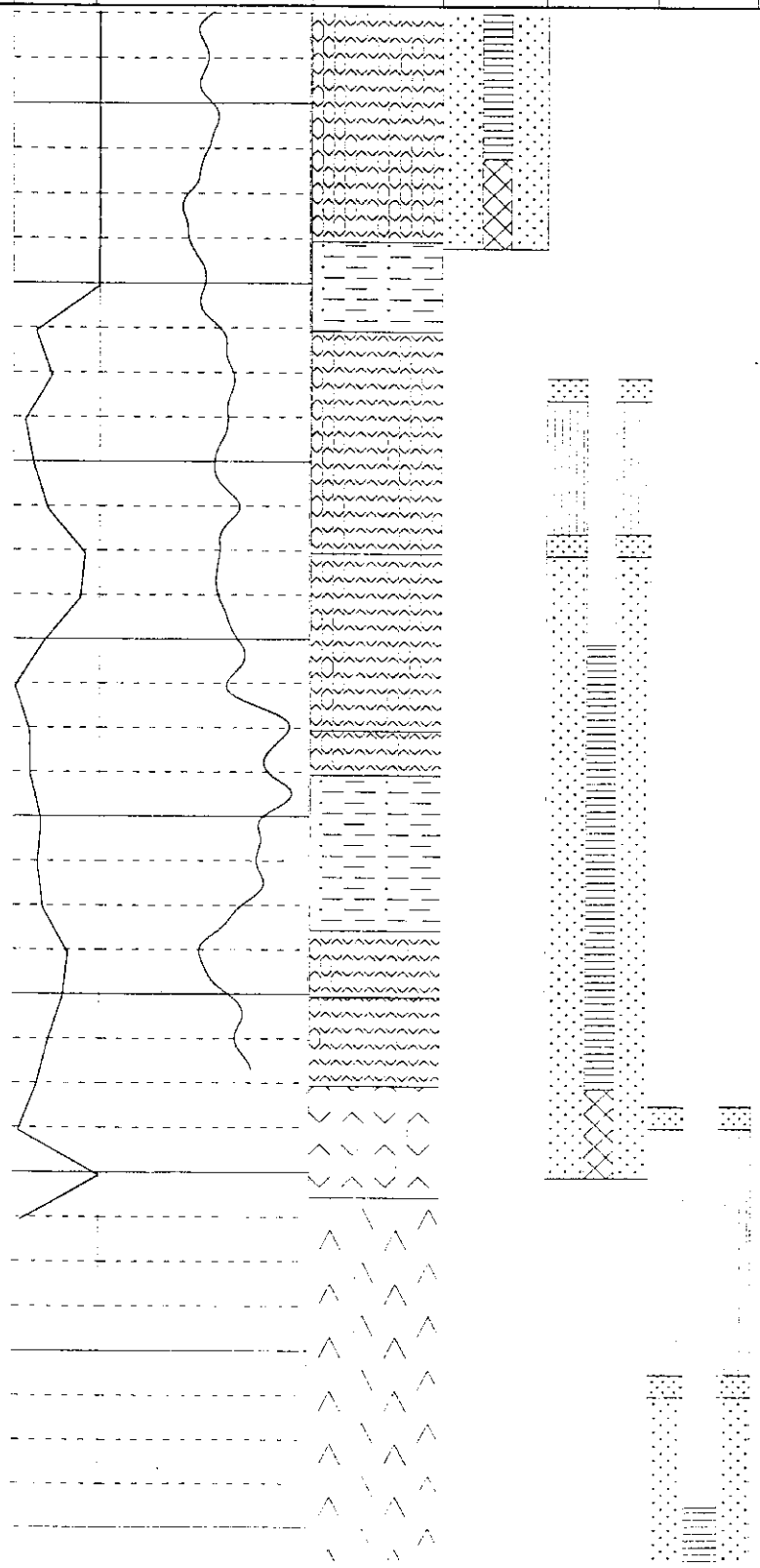
WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-12S	897881.99, 633459.89	21.72 FT-MSL	4.3 to -9.2
PC-12D	897877.51, 633457.35	21.78 FT-MSL	-20.1 to -30.1
PC-12B	897877.06, 633460.69	21.72 FT-MSL	-39.5 to 54.5

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 60	LITHOLOGY	PC-12S SAND=NO. 000 SLOT = .005	PC-12D SAND=NO. 00 SLOT = .01	PC-12B SAND=NO. 1 SLOT = .03
	SP	fill							
20									
18									
16									
14									
12									
10	ML	dark brown organic SILT with grass and debris							
8			280						
			300						
6			880						
			90						
4			340						
			320						
	SM	gray fine SAND	50						
2			40						
			22						
0			100						
			220						
-2			16						
	SP	black-gray medium SAND with 5% fine rounded gravel	55						
-4			880						
			100						

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-12
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-6			100
			100
-8	SP		100
			100
-10			100
-12	GP	fine rounded GRAVEL with (30-40%) medium black sand	100
			990
-14	SP	medium SAND with 30-40% round gravel	260
			440
-16			140
			240
-18	SP	medium-coarse brown SAND	400
			830
-20			770
			340
-22	SP	cobbles with 5-15% gravel and 5-15% brown sand	20
	GP	coarse GRAVEL with 20-30% fine-medium sand	190
-24			200
			320
-26	SP	fine-medium brown SAND	280
			340
-28	SP	medium-coarse SAND with 25-35% fine rounded gravel	630
			570
-30	GM	coarse GRAVEL - bedrock fragment and dense dry gray clay	400
			270
-32		competent bedrock	66
			100
-34			90
-36			
-38			
-40			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-12

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11

STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 60	LITHOLOGY	PC-12S SAND=NO. 000 SLOT = .005	PC-12D SAND=NO. 00 SLOT = .01	PC-12B SAND=NO. 1 SLOT = .03
-42									
-44									
-46									
-48									
-50									
-52									
-54									
-56									
-58									

FOSTER WHEELER ENVIRONMENTAL CORPORATION
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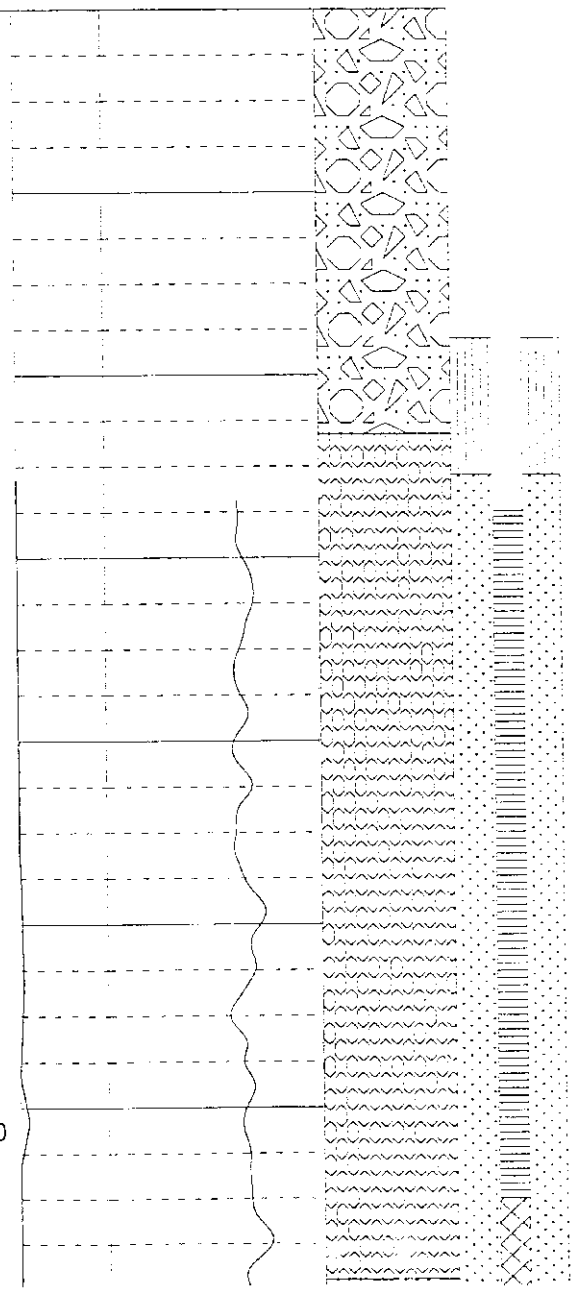
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-13
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 12/11/96
DATE COMPLETED: 12/20/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-13S	897568.65, 633933.14	19.30 FT-MSL	(9.0 to -6.0)
PC-13M	897571.82, 633936.05	19.28 FT-MSL	(-30.1 to -40.1)
PC-13D	897569.02, 633938.83	19.13 FT-MSL	(-51.0 to -61.0)
PC-13B	897565.91, 633936.23	19.21 FT-MSL	(-67.4 to -82.4)

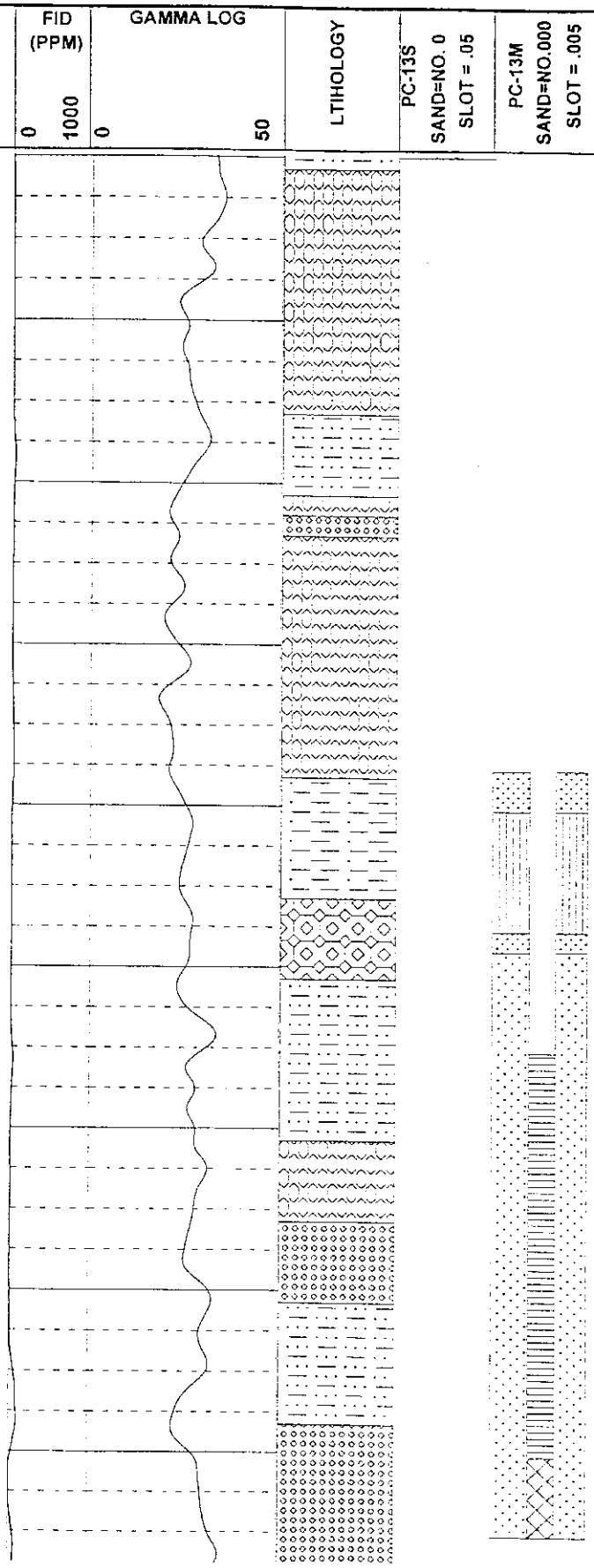
FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
18			
16			
14			
12	SP		
10	SP	brown fine-coarse SAND with fine angular gravel and concrete (fill)	0
			0
8			0
		brown fine-coarse SAND with concrete and asphalt fragments (fill)	0
6	SP	brown medium-coarse SAND	0
			1
4			8
	SP	brown medium-coarse SAND with fine angular gravel with angular gravel (30-40%)	7.5
2			10
			28
0			35
			45
-2		brown medium-coarse SAND with fine angular gravel (35-45%)	30
			0
-4			100
		medium-coarse SAND with 20-30% fine gravel	0
-6	SP	fine-coarse angular GRAVEL	0
			0



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-13
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-8	SM	fine brown SAND with 15-25% silt	
	SP	fine-medium SAND with 15-25% fine gravel	0
-10		medium-coarse SAND with 30-40% angular fine gravel	0
			0
-12	SP	medium-coarse brown SAND with 10-20% brown gravel	0
-14	SP	medium brown SAND	0
	SP-SM	red-brown fine SAND with 10-20% silt	0
-16			30
	SP	gray-brown fine SAND	10
-18	SP-ML	gray SILT with 20-30% sand	5.5
		gray-brown fine SAND	0
-20			1
			0.5
-22	SP	brown-gray fine-coarse SAND with 10-20% subangular gravel	10
			20
-24	SP	fine-coarse GRAVEL	22
			0
-26			7
	SM	fine brown SAND with 20-30% silt	2.5
-28			5
	SP-ML	fine-medium brown SAND with 5-15% silt	0
-30	SM		0
			34
-32			10
	SP	medium-coarse SAND with 5-15% fine gravel	1.5
-34			10
	ML	brown SILT with 20-30% fine sand	0
-36			0
	SP-SM	brown fine SAND with 5-15% silt	8
-38			6
			82
-40	ML	brown SILT with 35-45% fine brown sand	100
			5
-42			10



FOSTER WHEELER ENVIRONMENTAL CORPORATION
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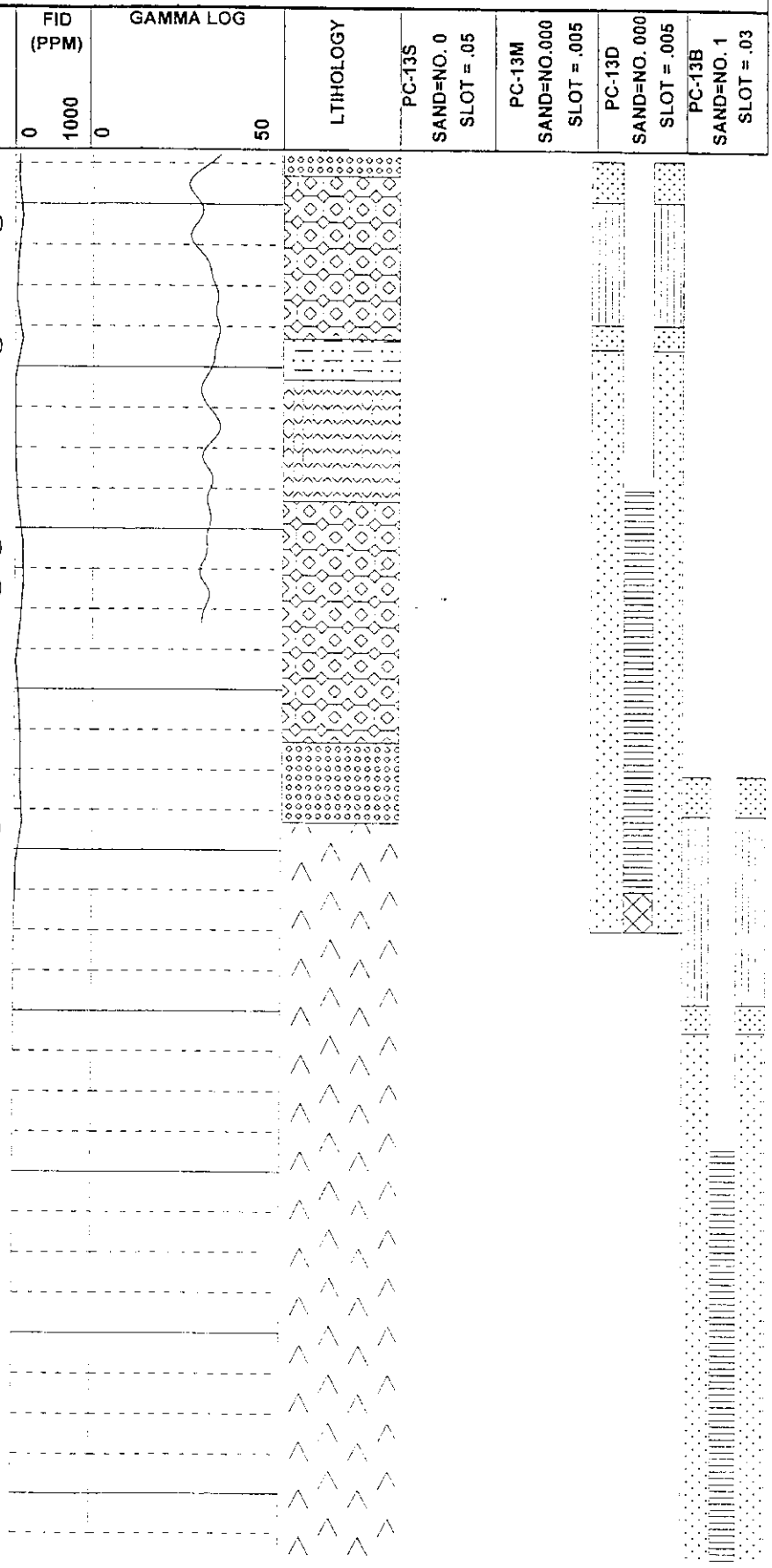
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-13
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
			72
-44	SM	brown fine SAND with 20-30% silt	50
			100
-46	SM	brown fine SAND with 30-40% silt	43
			18
-48	SP-SM	brown fine SAND with 10-20% silt	100
	SP	red fine-medium SAND	0
-50	SP	fine-coarse SAND with 5-10% gravel	0
			6
-52	SM	brown fine SAND with 20-30% silt	34
			100
-54			110
-56			14
			58
-58	ML	gray-blue SILT with 5-10% fine subrounded gravel	80
		blue-gray SILT	74
-60	BR	weathered bedrock	100
			20
-62		competent bedrock	12
-64			
-66			
-68			
-70			
-72			
-74			
-76			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-13

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11

STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 50	LTIHOLOGY	PC-13S SAND=NO. 0 SLOT = .05	PC-13M SAND=NO.000 SLOT = .005	PC-13D SAND=NO. 000 SLOT = .005	PC-13B SAND=NO. 1 SLOT = .03
-78										
-80										
-82										
-84										
-86										
-88										
-90										

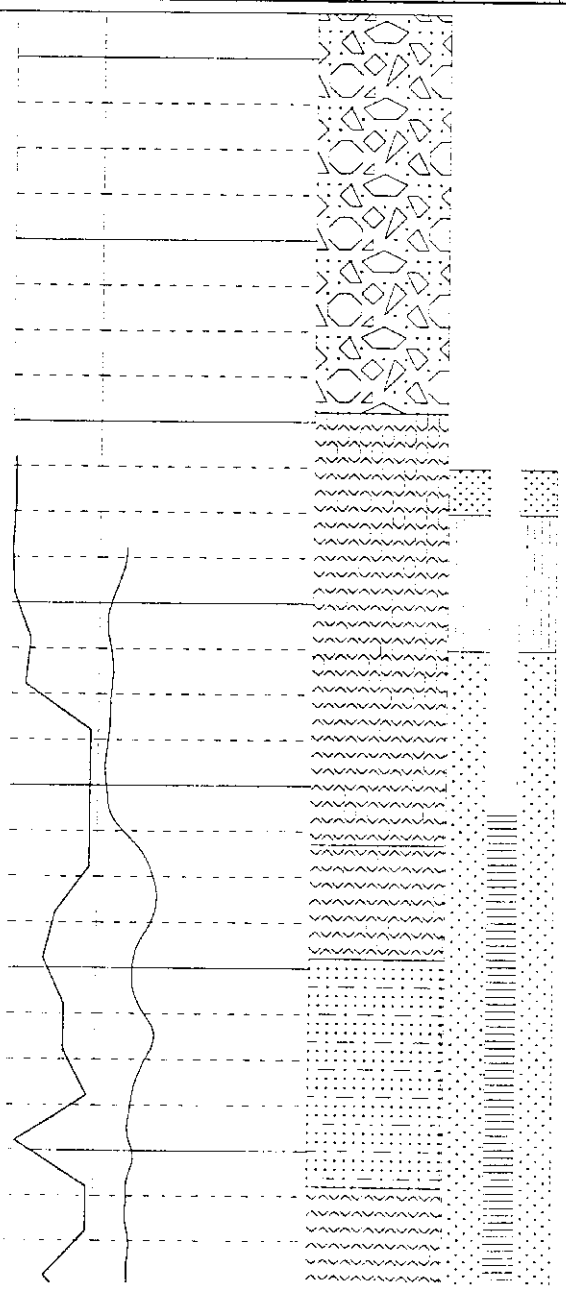
FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-14
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 02/22/97
DATE COMPLETED: 07/29/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INC ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-14S	897663.80, 633593.38	23.64 FT-MSL	7.40 to -7.6
PC-14D	897661.08, 633590.66	24.55 FT-MSL	-18.25 to -31.75
PC-14B	897666.03, 633590.28	24.64 FT-MSL	-40.30 to -55.30

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
24			
22		clean FILL	
20			
18			
16	SP		
14		waste soil- organic process fill with 20-30% SAND, some roots (not peat) and brake pads	40
			42
			9
12			32
			240
10			180
			100
8	SP		100
			100
6		black petroleum stained medium SAND	100
			580
4	SP-SM	gray-brown fine-medium SAND with 5% silt - petroleum odor	440
			700
2			700
			100
0			110
	SP	gray-brown fine SAND	100
-2			100

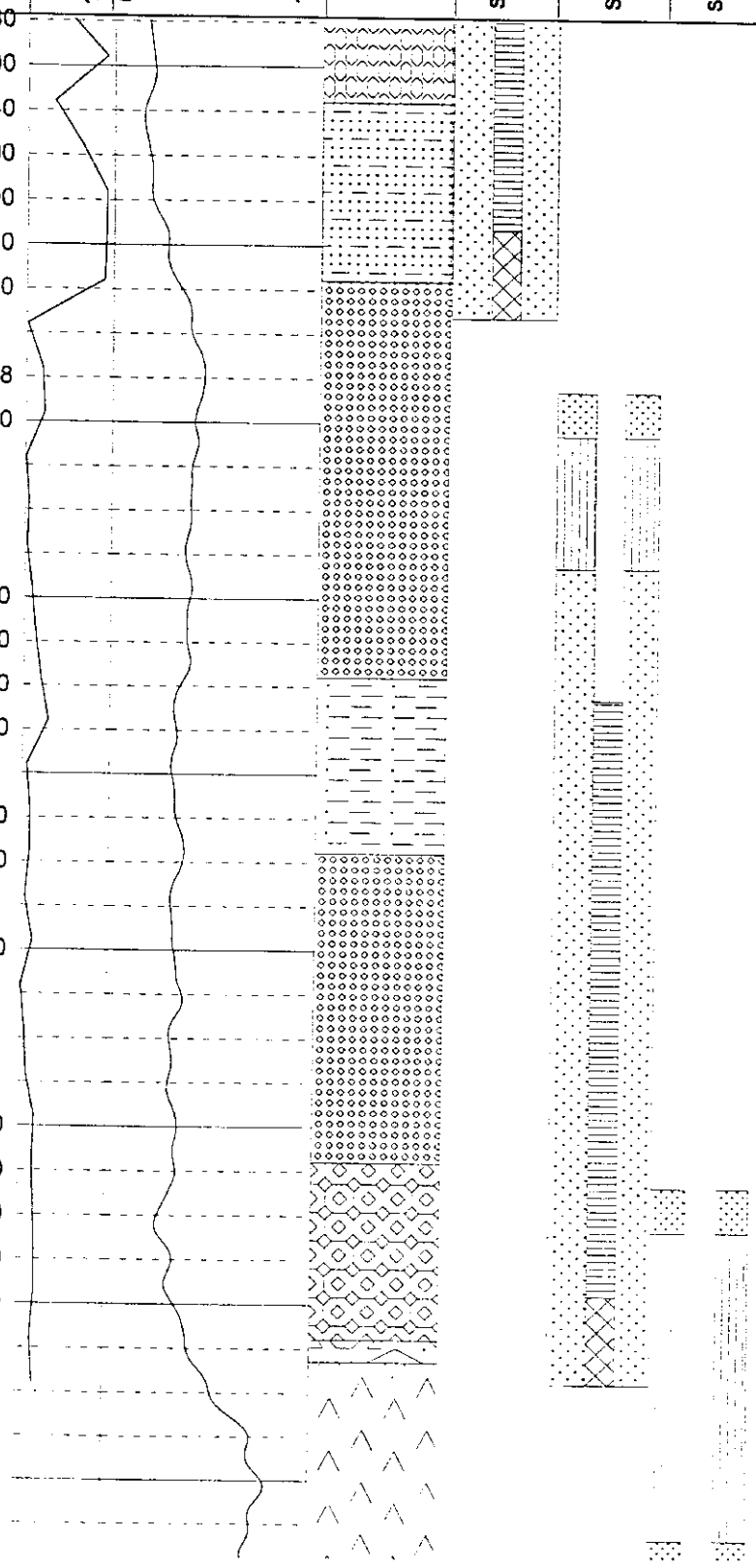


FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-14

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
			480
-4			100
	SP-SM	brown fine SAND with 5-15% silt	340
-6			700
			100
-8			100
	ML	dense brown SILT	980
-10			16
			208
-12			240
			10
-14			50
			34
-16	ML	brown SILT with 20-30% red fine sand	100
			150
-18	GP	fine GRAVEL with 35-45% fine-medium sand	220
			320
-20			60
			100
-22	ML	brown SILT with 15-25% fine sand - dense	100
			50
-24			150
			10
-26			62
			90
-28	ML	red-brown SILT with 35-45% fine sand	200
	SM	brown fine SAND with 35-45% silt	180
-30			200
			220
-32			220
		till - red dense silt with fine-coarse gravel - bedrock fragments	180
-34	Bed	competent bedrock	220
-36			



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470 ATLANTIC AVENUE
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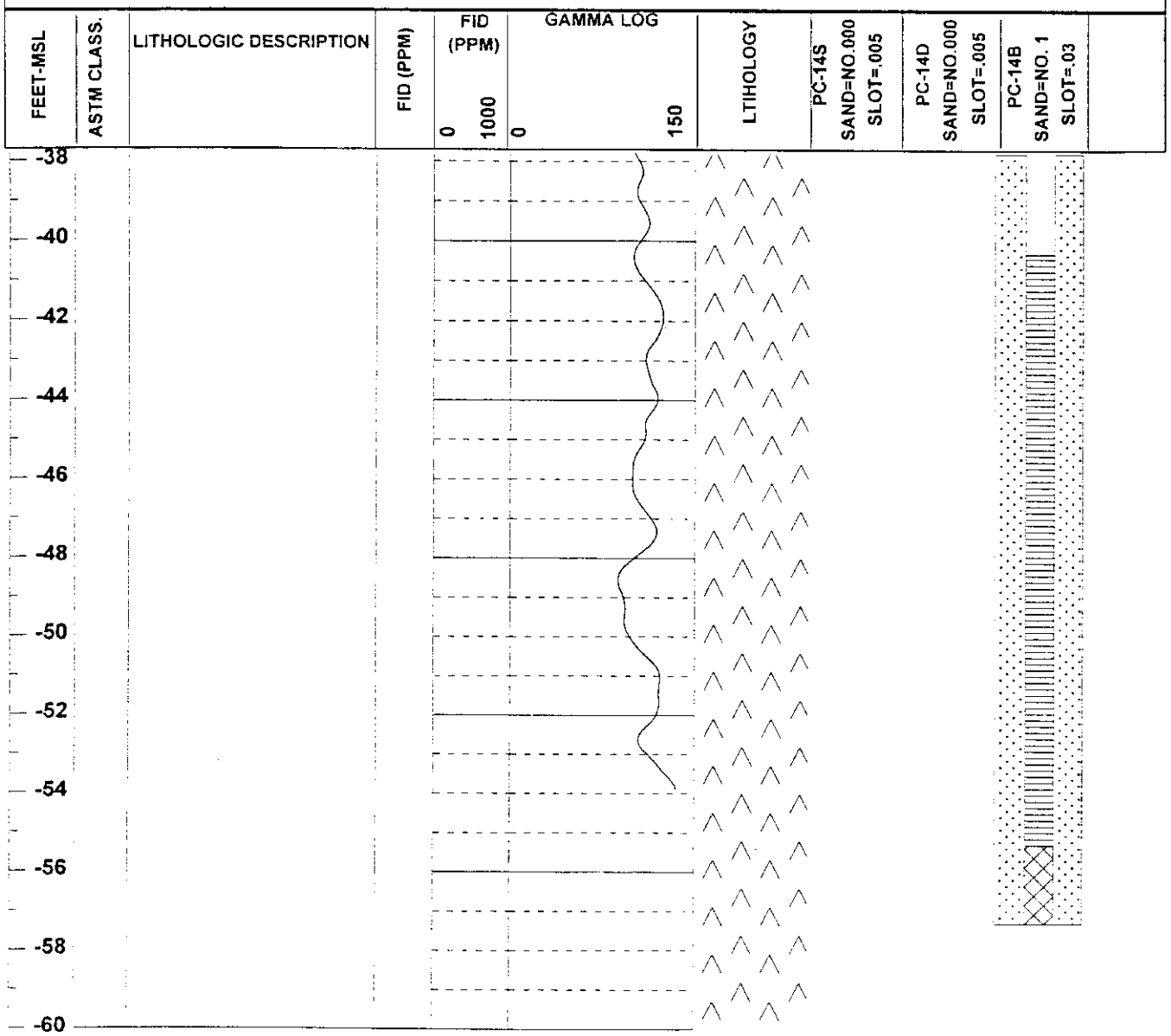
MONITORING WELL CLUSTER: PC-14

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT



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BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-15
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 01/08/97
DATE COMPLETED: 02/22/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-15S	897429.79, 633383.18	23.64 FT-MSL	7.9 to -7.1
PC-15D	897425.83, 633384.67	23.71 FT-MSL	-6.0 to -12.0
PC-15B	897426.87, 633380.40	23.74 FT-MSL	-21.0 to -36.1

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
24		clean FILL	
22			
20	GP	graded aggregat base - fine-coarse GRAVEL with 40% gray medium sand	100
18			900
			1000
16	ML	black silt with 20% rounded fine gravel and trace sand	1000
			120
14	SM	fine-medium brown SAND with 10-20% black silt and trace fine subrounded gravel	10
			12
12			100
	SP	dark brown medium SAND with 40% fine-coarse subrounded gravel	450
10			220
			400
8	ML	process waste - black SILT with 20-30% medium sand - asbestos fibers and wood debris present	20
			80
6	SM	gray medium SAND with 15% silt roots	400
			550
4	SP	gray fine-medium SAND	1000
	SM	gray fine SAND with 30% silt	1000
2	SP	gray-tan fine-medium SAND with 5% silt	400
			100
0	SM	gray-tan fine SAND with 40% silt	200
			220
-2			300
			10

FID (PPM) 0 – 1000

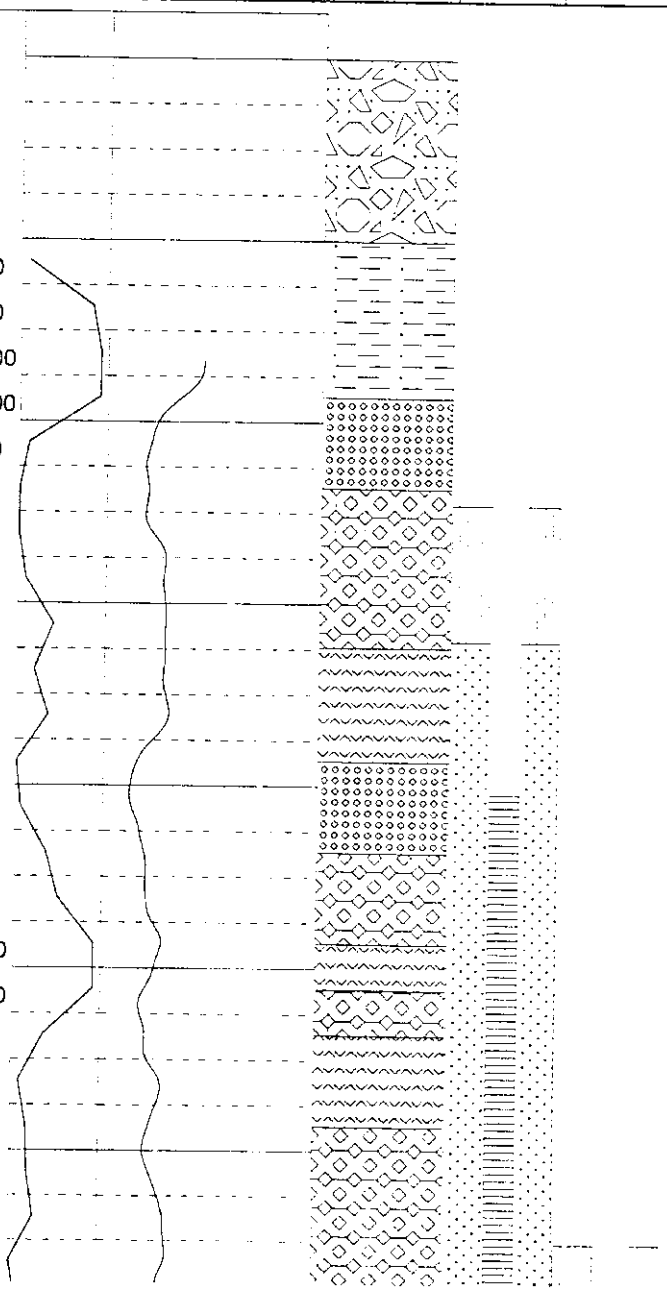
GAMMA LOG 0 – 150

LITHOLOGY

PC-15S SAND=NO.000 SLOT=.005

PC-15D SAND=NO.000 SLOT=.005

PC-15B SAND=NO. 1 SLOT = .03



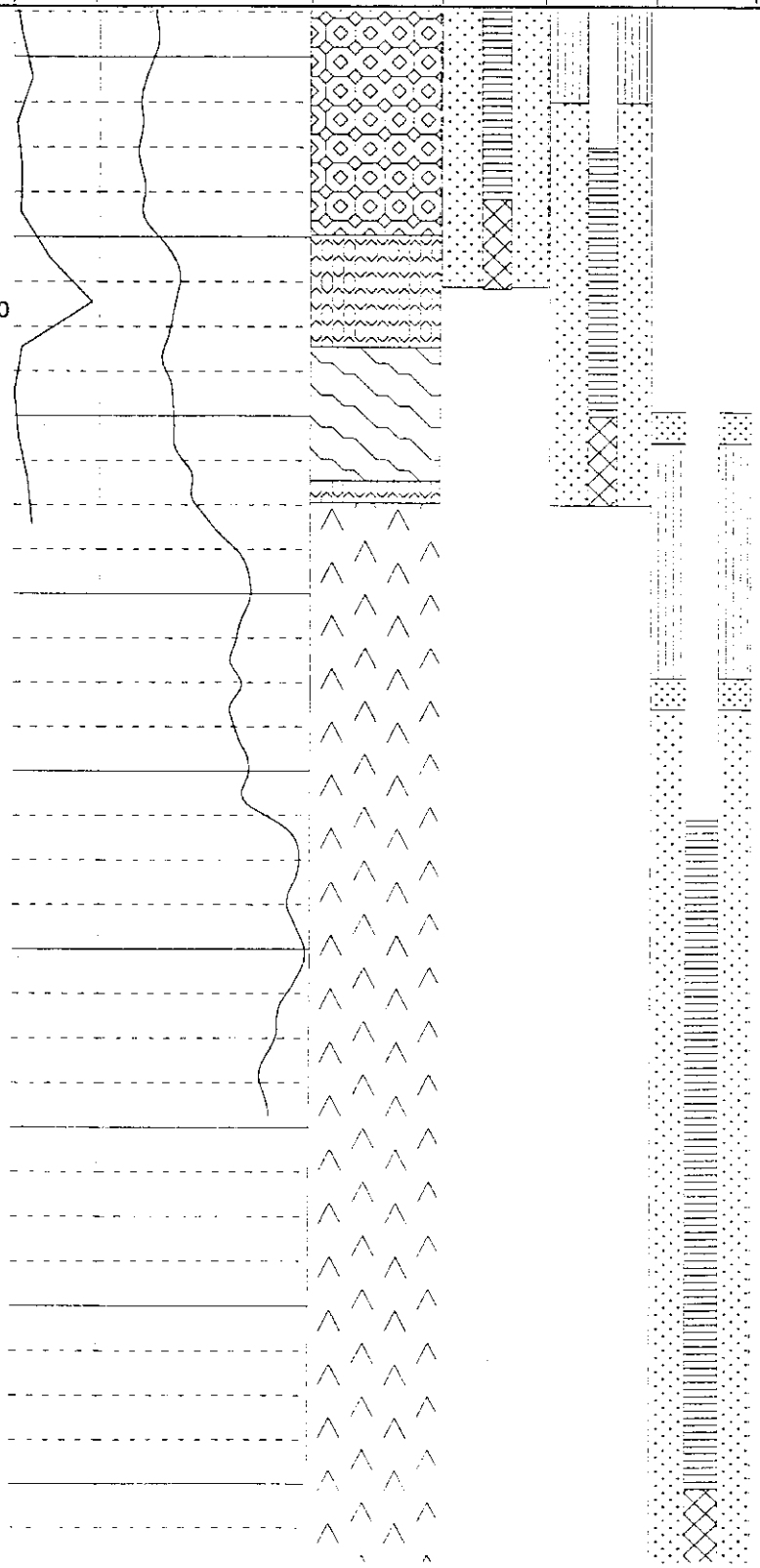
FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-15

RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11

STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
-4			100
			240
-6			40
			100
-8	SP	brown medium SAND with 40% fine-coarse subrounded gravel	90
			450
-10			1000
	CH	gray-brown clay with some silt and 10% subrounded fine gravel	100
-12			6
			60
-14	SP	brown medium-coarse SAND with 30% fine-coarse subrounded gravel	180
	Bed	Bedrock	240
-16			
-18			
-20			
-22			
-24			
-26			
-28			
-30			
-32			
-34			
-36			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
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BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-15
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 150	LITHOLOGY	PC-15S SAND=NO.000 SLOT=.005	PC-15M SAND=NO.000 SLOT=.005	PC-15B SAND=NO. 1 SLOT=.03
-38									
-40									

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
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MONITORING WELL CLUSTER: PC-16
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

DATE STARTED: 01/08/97
DATE COMPLETED: 02/07/97
GEOLOGIST: KERNEN/ANDERSON
INSTALLED BY MAHER ENVIRONMENTAL
2-INCH ID, 316 STAINLESS STEEL

WELL ID	LOCATION	TIC ELEVATION (FT-MSL)	SCREEN INT. (FT-MSL)
PC-16S	897173.36, 633563.64	27.17 FT-MSL	(9.8 to -5.2)
PC-16M	897177.41, 633565.18	27.24 FT-MSL	(-18.3 to -28.3)
PC-16D	897175.59, 633562.40	27.20 FT-MSL	(-48.3 to -63.0)
PC-16B	897174.72, 633566.78	27.20 FT-MSL	(-77.8 to -92.8)

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
		clean FILL	
26			
24			
22			
20			
18			
16			
14			
12			
10	SP-SM	black fine SAND with 25-35% fine-coarse gravel and 5-15% silt-red fabric material present (fill)	1000
			1000
8			1000
			1000
6			1000
			1000
4			1000
	SP	black fine-medium SAND	980
2			620
			120
			44

FID (PPM) 0 – 1000; GAMMA LOG 0 – 70

FOSTER WHEELER ENVIRONMENTAL CORPORATION
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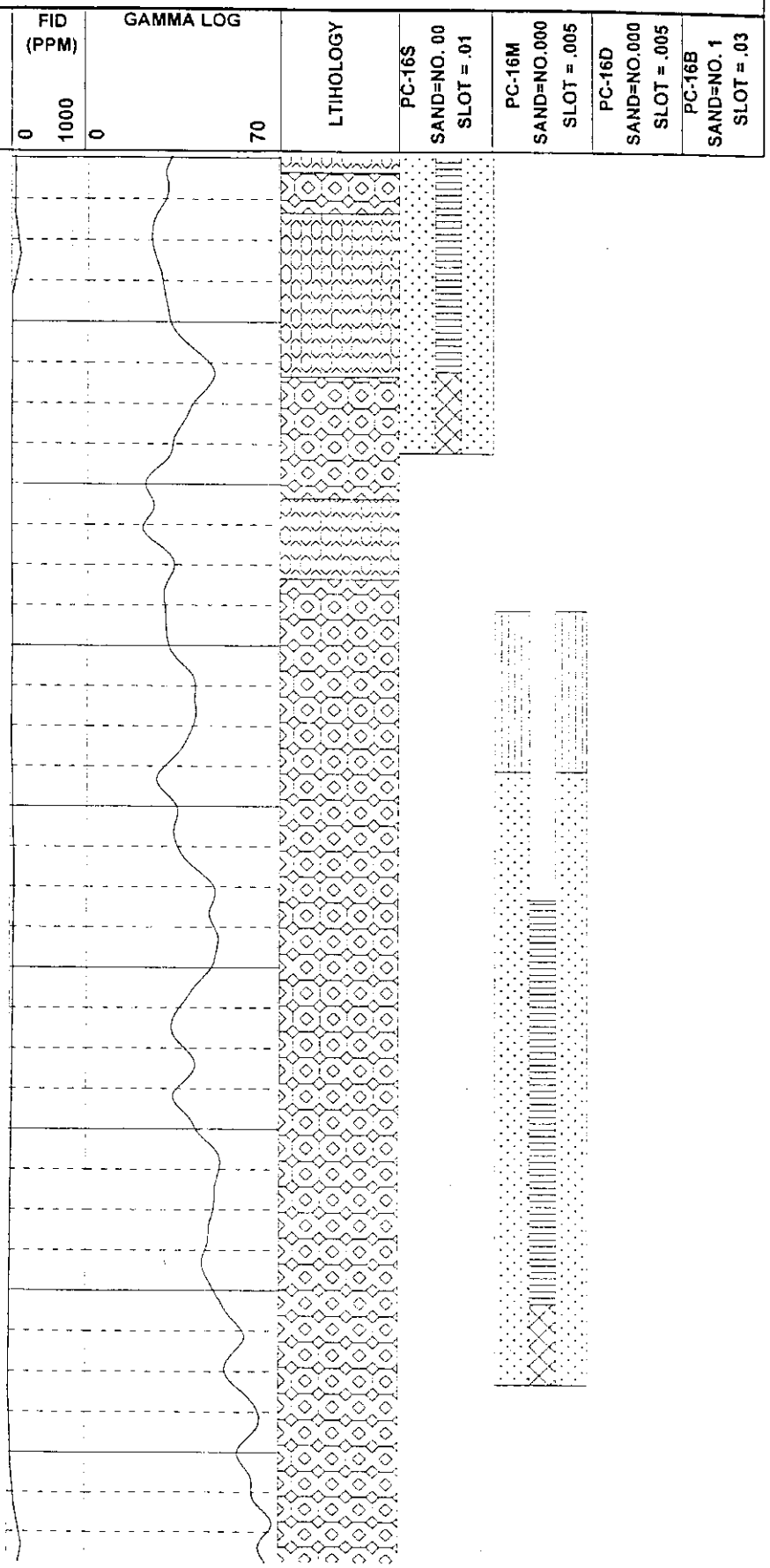
BOSTON, MASSACHUSETTS 02210

MONITORING WELL CLUSTER: PC-16
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)
0	SM	fine gray SAND with 15-25% silt	52
	SP	gray-brown fine-medium SAND	46
-2			120
			12
-4			12
	SM	brown fine SAND with 30-40% silt	10
-6			4
			7
-8	SP	brown medium SAND	4
			6.5
-10	SM	brown fine-medium SAND with 20-25% silt	18
			20
-12	SM	brown fine SAND with 35-45% silt	22
	SM	brown fine SAND with 20-30% silt	18
-14			12
			32
-16			34
			54
-18			
-20			
-22			
-24			
-26			
-28	SM	brown fine SAND with 20-25% silt-cobble at -30.34	
-30			12
			6
-32			30
			42
-34			88



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BOSTON, MASSACHUSETTS 02210

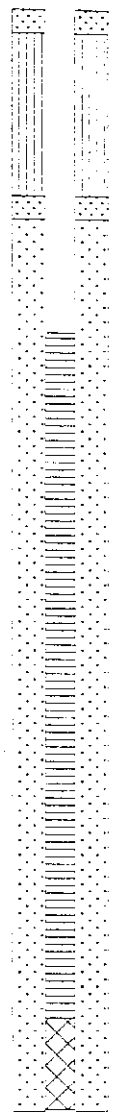
MONITORING WELL CLUSTER: PC-16
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

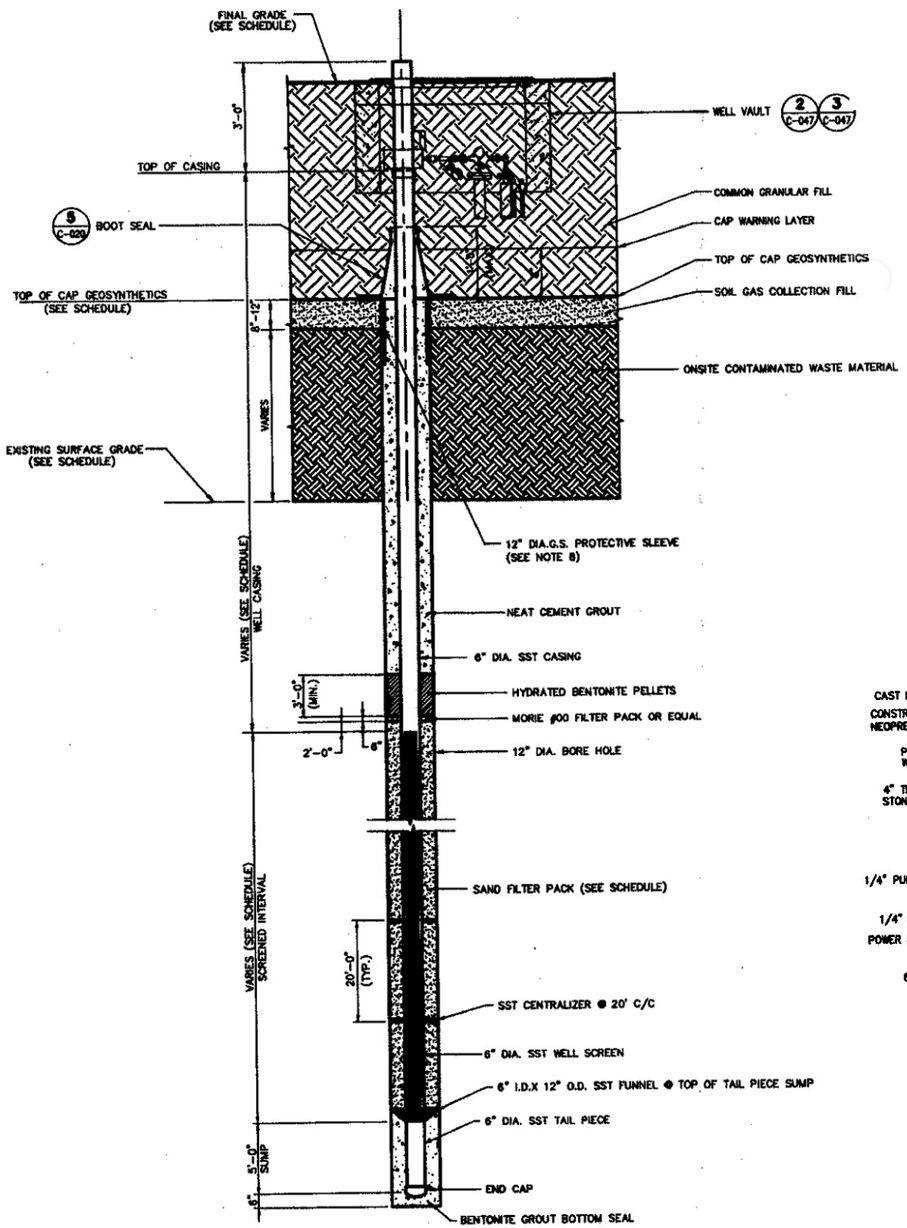
FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 70	LTIHOLOGY	PC-16S SAND=NO. 00 SLOT = .01	PC-16M SAND=NO.000 SLOT = .005	PC-16D SAND=NO.000 SLOT = .005	PC-16B SAND=NO. 1 SLOT = .03
			180							
-36	ML	SILT with 5-15% fine sand	80							
			80							
-38			80							
			10							
-40	ML		4							
			10							
-42			70							
			30							
-44			55							
			100							
-46			100							
			80							
-48			300							
			10							
-50			36							
			20							
-52			100							
			90							
-54			36							
-56			44							
			60							
-58			92							
			90							
-60			100							
			68							
-62	SP		100							
			100							
-64	SM	gray fine-coarse SAND with 20-30% silt, bedrock fragments, dry	260							
			540							
-66		competent BEDROCK	300							
-68										

FOSTER WHEELER ENVIRONMENTAL CORPORATION
470 ATLANTIC AVENUE
BOSTON, MASSACHUSETTS 02210

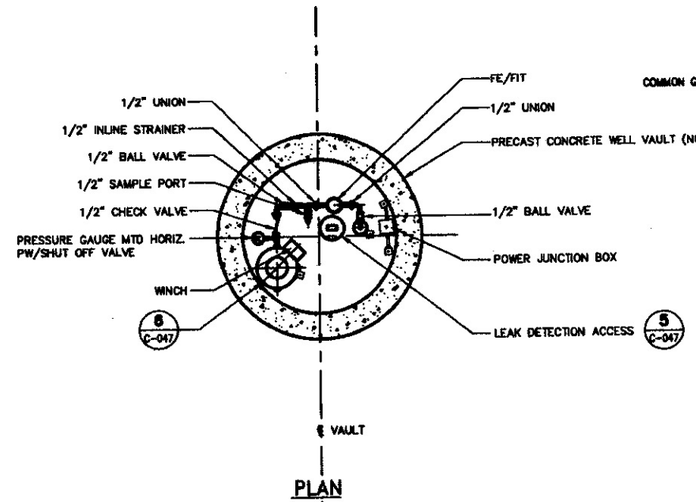
MONITORING WELL CLUSTER: PC-16
RAYMARK INDUSTRIES FACILITY SITE - D.O. NO. 11
STRATFORD, CONNECTICUT

FEET-MSL	ASTM CLASS.	LITHOLOGIC DESCRIPTION	FID (PPM)	FID (PPM) 0 1000	GAMMA LOG 0 70	LTIHOLOGY	PC-16S SAND=NO. 00 SLOT = .01	PC-16M SAND=NO.000 SLOT = .005	PC-16D SAND=NO.000 SLOT = .005	PC-16B SAND=NO. 1 SLOT = .03
-70										
-72										
-74										
-76										
-78										
-80										
-82										
-84										
-86										
-88										
-90										
-92										
-94										
-96										
-98										
-100										

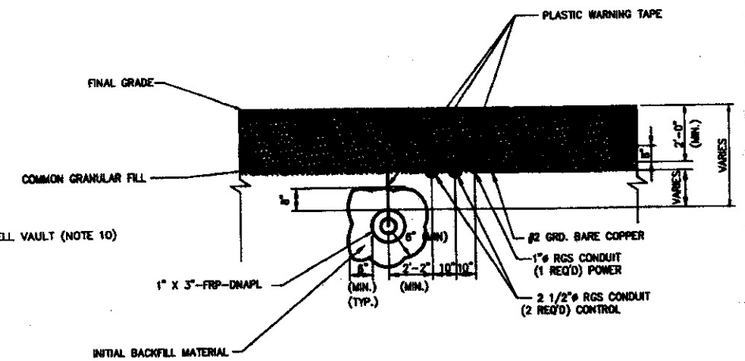




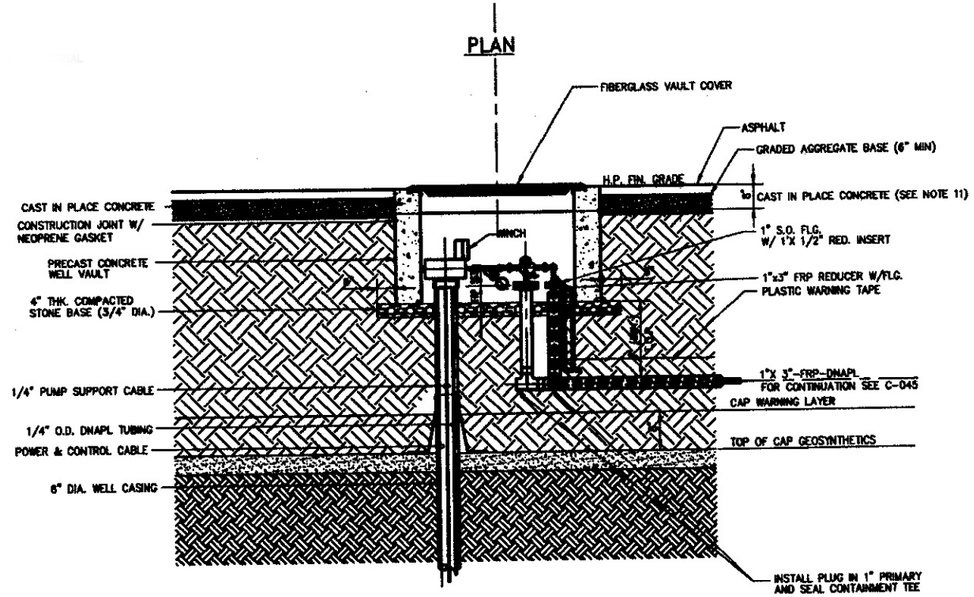
1 / C-047 **DNAPL EXTRACTION WELL SECTION**
SCALE: NONE



PLAN



A / C-045 **SECTION-DNAPL PIPING/CONDUIT TRENCH**
SCALE: NONE
NOTE: CONDUIT QUANTITIES AND SIZES INDICATED ON C-045



SECTION

1 / 2 / C-045 **WELL VAULT: RW-1 THRU RW-3 & RW-5**
SCALE: 1/2" = 1'-0"

NOTES:

1. RELATED SHEET REFERENCE:
   C-001 INITIAL SITE CONDITIONS
   C-002 FINAL SITE PLAN
   C-004 GRADING PLAN TOP OF GAS VENT LAYER
   C-045 DNAPL SYSTEM PIPING AND CONDUIT PLAN
   E-003 DNAPL ELECTRICAL DETAILS
   P-006 DNAPL EXTRACTION SYSTEM PIPING AND INSTRUMENTATION DIAGRAM
2. ALL ELEVATIONS INDICATED ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM (NGVD).
3. VALVES, INSTRUMENTATION AND EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4. PIPE TRENCH TO BE BACKFILLED PER SPEC. SECTION 02222. CONSULT WITH ENGINEER IF SPECIFIED BACKFILL REQUIREMENTS CANNOT BE MET DUE TO ACTUAL CONDITIONS.
5. REFER TO SPEC. SECTION 02661 FOR ADDITIONAL PIPING INFORMATION.
6. REFER TO SPEC. SECTION 11347 FOR PUMP MATERIALS AND INFORMATION.
7. REFER TO SPEC. SECTION 02228 FOR ADDITIONAL WELL INSTALLATION REQUIREMENTS.
8. PROTECTIVE SLEEVE (INSTALLED DURING WELL INSTALLATION) SHALL EXTEND 2 FEET ABOVE GRADE AT TIME OF INSTALLATION, OR SHALL BE EXTENDED TO SUIT ACTUAL CONDITIONS.
9. VAULT TO BE PRECAST CONCRETE 4' I.D. BY 36" H. 4000 PSI CONCRETE.
10. ALL ELECTRICAL COMPONENTS WITHIN THE VAULT SHALL MEET NEC CLASS 1, DIV. 1, GROUP D REQUIREMENTS.
11. VAULT COVERS TO BE FIBERGLASS COMPOSITE (FIBERLITE OR EQUAL) DOT H-20 VEHICULAR RATED WITH 42" MIN. CLEAR OPENING. VAULT COVERS TO BE LOCKING TYPE. REFER TO MANUFACTURER'S INFORMATION FOR INSTALLATION REQUIREMENTS ASSOCIATED WITH EMBEDMENT INTO "CAST IN PLACE" CONCRETE.
12. VENT AND VENT CONNECTIONS TO ACCOMODATE TESTING PER SPEC. SECTION 02661.

1" 0 2" 4" SCALE FEET 1/2" = 1'-0"

1 1/2" 0 3" SCALE INCHES 3" = 1'-0"

REV No	DESCRIPTION	DATE	APPROVED
1	DELETED RW-4, ALTERED SCHEDULE	12/19/96	EAW
0	ISSUED FOR CONSTRUCTION	09/27/96	EAW

REVISIONS

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS

GROUNDWATER TECHNOLOGY GOVERNMENT SERVICES 225 WASHINGTON-WEST CHESTER PIKE CHADDS FORD, PA 19317 (610) 558-2240

FOSTER WHEELER ENVIRONMENTAL CORPORATION 470 ATLANTIC AVENUE BOSTON, MASS 02210

DESIGNED	DRAWN	CHECKED
JBW	JJW	WFP

SUBMITTED BY:

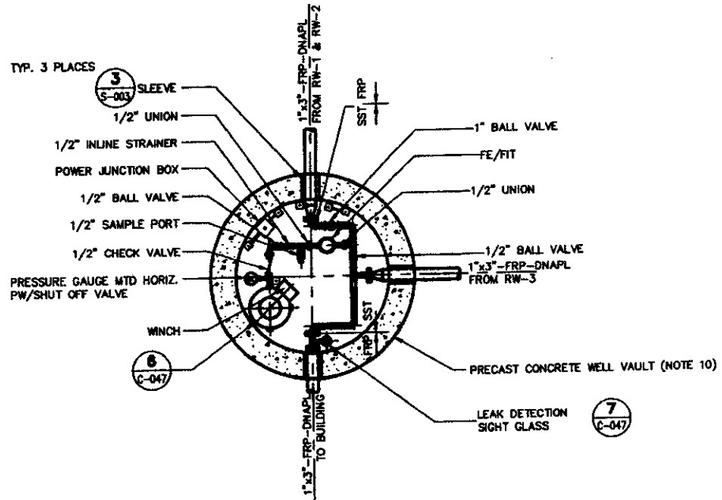
PRINCIPAL OF A/E FIRM

P.E. STAMP 1/18/97

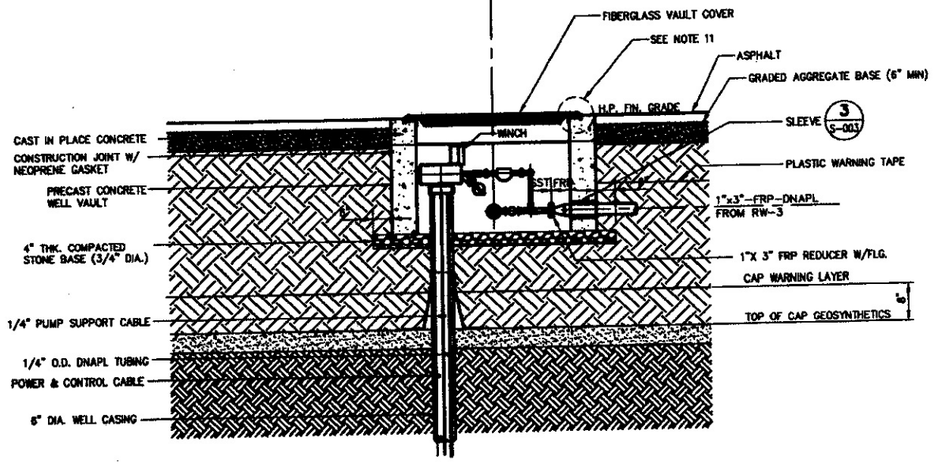
REMEDIATION OF RAYMARK INDUSTRIES, INC
PART OF THE RAYMARK SUPERFUND SITE
RCRA CAP DESIGN
STRATFORD, CONNECTICUT

DNAPL EXTRACTION WELL DETAILS & TRENCH DETAILS

DATE: OCT. 29, 1996
SOLICITATION NUMBER:
SHEET REFERENCE: C-047
SCALE: AS NOTED
DRAWING CODE:
FILE: 2311-C47.DWG
SHEET 1 OF 1

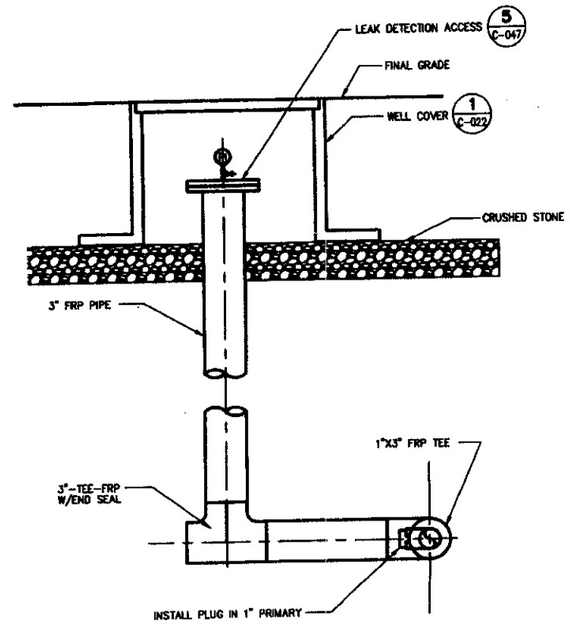


PLAN



SECTION

3 C-045 WELL VAULT: RW-6
SCALE: 1/2" = 1'-0"



4 C-045 LEAK DETECTION PORT
SCALE: NONE

NOTES:

1. RELATED SHEET REFERENCE:
   C-001 INITIAL SITE CONDITIONS
   C-002 FINAL SITE PLAN
   C-004 GRADING PLAN TOP OF GAS VENT LAYER
   C-045 DNAPL SYSTEM PIPING AND CONDUIT PLAN
   E-003 DNAPL ELECTRICAL DETAILS
   P-006 DNAPL EXTRACTION SYSTEM PIPING AND INSTRUMENTATION DIAGRAM
2. ALL ELEVATIONS INDICATED ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM (NGVD).
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5. REFER TO SPEC. SECTION 02661 FOR ADDITIONAL PIPING INFORMATION.
6. REFER TO SPEC. SECTION 11347 FOR PUMP MATERIALS AND INFORMATION.
7. REFER TO SPEC. SECTION 02228 FOR ADDITIONAL WELL INSTALLATION REQUIREMENTS.
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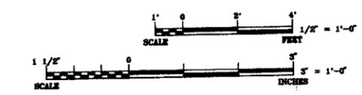
12. TEST AND VENT CONNECTIONS TO ACCOMODATE TESTING PER SPEC. SECTION 02661.



REV No	DESCRIPTION	DATE	APPROVED
1	DELETED RW-4, ALTERED SCHEDULE	12/19/96	EAW
0	ISSUED FOR CONSTRUCTION	09/27/96	EAW

REVISIONS

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS

GROUNDWATER TECHNOLOGY GOVERNMENT SERVICES 225 WILMINGTON-WEST CHESTER PIKE CHADDS FORD, PA. 19317 (610) 558-8540

FOSTER WHEELER ENVIRONMENTAL CORPORATION 470 ATLANTIC AVENUE BOSTON, MASS 02210

DESIGNED	DRAWN	CHECKED
JBW	JJW	WFP

SUBMITTED BY:

PRINCIPAL OF A/E FIRM

P.E. STAMP 1/18/97

REMEDIATION OF RAYMARK INDUSTRIES, INC
PART OF THE RAYMARK SUPERFUND SITE
RCRA CAP DESIGN
STRATFORD, CONNECTICUT

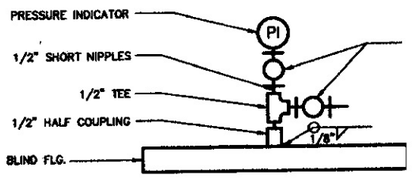
DNAPL EXTRACTION WELL DETAILS & TRENCH DETAILS

DATE: OCT. 29, 1996
SCALE: AS NOTED
FILE: 2311-C47.DWG
SOLICITATION NUMBER:
DRAWING CODE:
SHEET REFERENCE: C-047
SHEET 1 OF 1

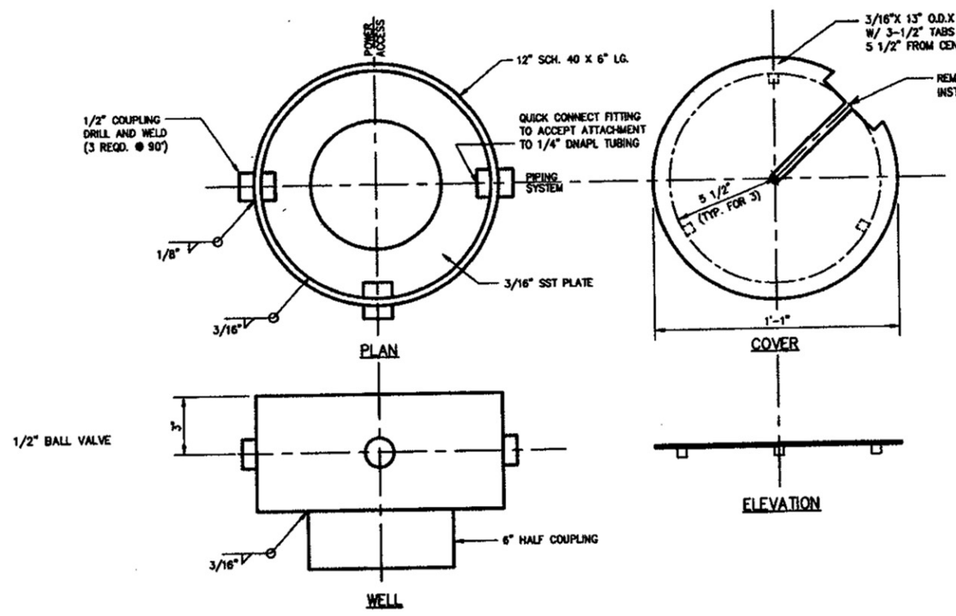
DNAPL EXTRACTION WELL SCHEDULE

WELL NUMBER	NORTH COORDINATE	EAST COORDINATE	TOP OF CASING ELEVATION	WELL CASING LENGTH	TOP OF WELL SCREEN ELEVATION	SCREENED INTERVAL	TOP OF WELL SUMP ELEVATION	WELL SUMP LENGTH	BOTTOM OF WELL ELEVATION	WELL CASING MATERIAL AND SIZE	SCREEN MATERIAL AND SIZE	FILTER PACK MATERIAL	WELL SUMP MATERIAL AND SIZE	PROPOSED FINAL GRADE ELEVATION	TOP OF CAP GEOSYNTHETICS ELEVATION	EXISTING SURFACE GRADE ELEVATION
RW-1	633752.0	897484.0	24.3	36.3 FT	-12.0	25 FT	-37.0	5.0 FT	-42.0	6" DIA SCH 10 316L SST	316L SST WIRE WRAP 6" X 0.020 SLOT	MORIE #0-#00	6" DIA SCH 10 316L SST	27.0	20.5	15.0
RW-2	633654.0	897597.0	23.3	14.2 FT	9.1	40 FT	-30.9	5.0 FT	-35.9	6" DIA SCH 10 316L SST	316L SST WIRE WRAP 6" X 0.020 SLOT	MORIE #0-#00	6" DIA SCH 10 316L SST	26.0	17.3	16.1
RW-3	633552.1	897352.2	23.1	8.6 FT	14.5	50 FT	-35.5	5.0 FT	-40.5	6" DIA SCH 10 316L SST	316L SST WIRE WRAP 6" X 0.020 SLOT	MORIE #0-#00	6" DIA SCH 10 316L SST	25.8	20.0	19.5
RW-5	633607.0	897292.2	22.1	24.7 FT	-2.6	85 FT	-87.6	5.0 FT	-92.7	6" DIA SCH 10 316L SST	316L SST WIRE WRAP 6" X 0.020 SLOT	MORIE #0-#00	6" DIA SCH 10 316L SST	24.8	18.0	17.2
RW-6	633575.0	897327.2	22.9	13.7 FT	9.2	40 FT	-30.8	5.0 FT	-35.8	6" DIA SCH 10 316L SST	316L SST WIRE WRAP 6" X 0.020 SLOT	MORIE #0-#00	6" DIA SCH 10 316L SST	25.6	20.0	17.7

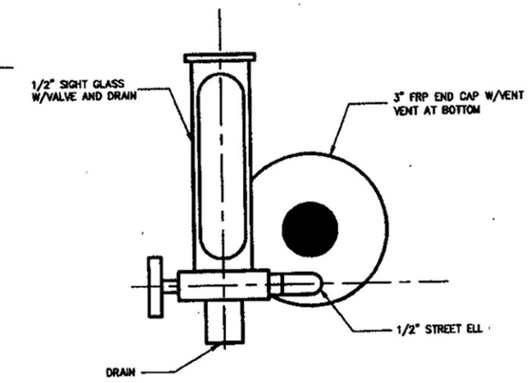
1 1



5 / C-047 LEAK DETECTION ACCESS
SCALE: NONE



6 / C-047 WELL HEAD
SCALE: 3" = 1'-0"



7 / C-047 LEAK DETECTION SIGHT GLASS
SCALE: NONE

NOTES:

1. RELATED SHEET REFERENCE:
   C-001 INITIAL SITE CONDITIONS
   C-002 FINAL SITE PLAN
   C-004 GRADING PLAN TOP OF GAS VENT LAYER
   C-045 DNAPL SYSTEM PIPING AND CONDUIT PLAN
   E-003 DNAPL ELECTRICAL DETAILS
   P-008 DNAPL EXTRACTION SYSTEM PIPING AND INSTRUMENTATION DIAGRAM
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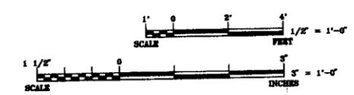


REV No	DESCRIPTION	DATE	APPROVED
1	DELETED RW-4, ALTERED SCHEDULE	12/19/96	EAW
0	ISSUED FOR CONSTRUCTION	09/27/96	EAW

REVISIONS

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS

GROUNDWATER TECHNOLOGY GOVERNMENT SERVICES 225 WASHINGTON-WEST CHESTER PIKE CHADDS FORD, PA. 19317 (610) 558-2540

FOSTER WHEELER ENVIRONMENTAL CORPORATION 470 ATLANTIC AVENUE BOSTON, MASS 02210

DESIGNED	DRAWN	CHECKED
JBW	JJW	WFP

SUBMITTED BY:

PRINCIPAL OF A/E FIRM

REMEDIATION OF RAYMARK INDUSTRIES, INC
PART OF THE RAYMARK SUPERFUND SITE
RCRA CAP DESIGN
STRATFORD, CONNECTICUT

DNAPL EXTRACTION WELL DETAILS & TRENCH DETAILS

P.E. STAMP 1/18/97

DATE: OCT. 29, 1996
SCALE: AS NOTED
FILE: 2311-C47.DWG
SOLICITATION NUMBER:
DRAWING CODE:
SHEET REFERENCE: C-047
SHEET 1 OF 1

SUPPLEMENTAL HYDROGEOLOGIC INVESTIGATION REPORT

VOLUME 1 OF 2

REPORT AND APPENDICES A & B

Synthetic Products Company
Stratford, Connecticut

MAY 1996
REF. NO. 3627 (4)
This report printed on recycled paper

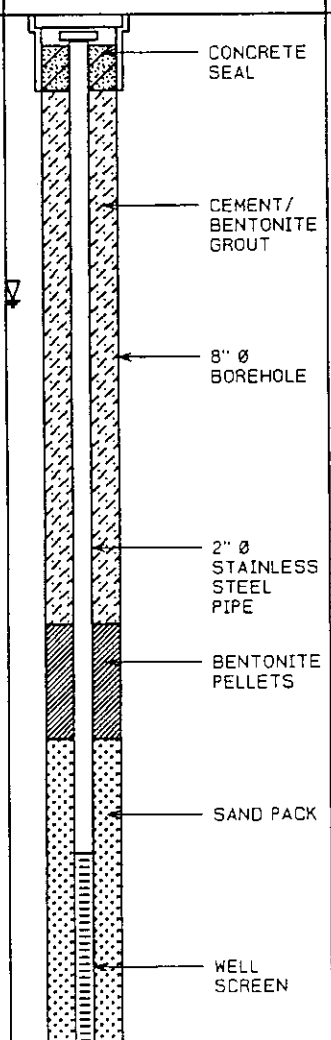
CONESTOGA-ROVERS & ASSOCIATES

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: CRA1D-95
DATE COMPLETED: MAY 26, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*11.26* *10.88*					
	For stratigraphic details, please refer to SB-1.						
2.5							
5.0							
7.5							
10.0							
12.5							
15.0							
17.5							
20.0							
22.5							
25.0							
27.5	END OF HOLE @ 27ft BGS	*-15.74*					
30.0							
32.5							



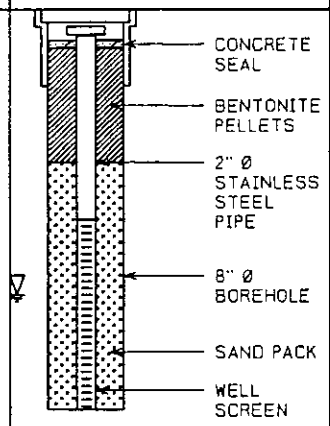
SCREEN DETAILS
Screened interval:
22 to 27ft BGS
Length: 5ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
19 to 27ft BGS
Material: No. 1 Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: CRA1S-95
DATE COMPLETED: MAY 16, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*11.22* *10.84*					
	For stratigraphic details, please refer to SB-1.						
-2.5							
-5.0							
-7.5							
-10.0							
	END OF HOLE @ 10.5ft BGS	*.72*					
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

SCREEN DETAILS
Screened interval:
5.5 to 10.5ft BGS
Length: 5ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
4 to 10.5ft BGS
Material: No. 1 Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

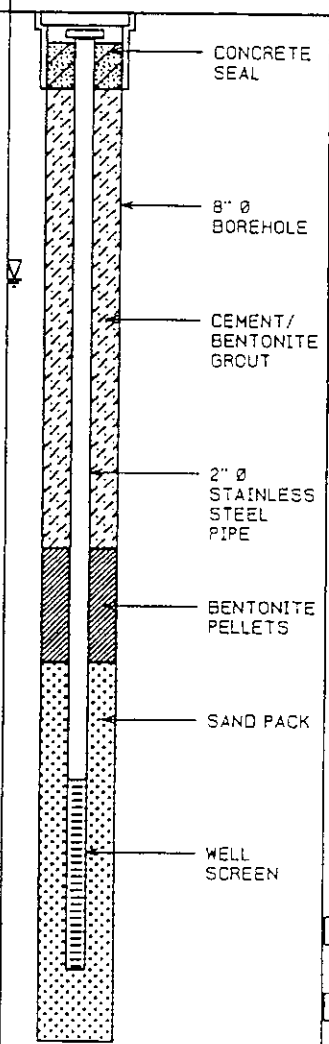
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: SB-2/CRA2D-95
DATE COMPLETED: MAY 16, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*11.03* *10.88*
	Asphalt	*10.73*
	FILL, gravel	*10.03*
-2.5	SP-SAND, medium dense, poorly graded, fine to medium grained, brown, dry	
-5.0	SW-SAND, trace fine gravel, very dense, well graded, medium to coarse gained, brown, wet	*6.03*
-7.5		
-10.0	- spilt spoon not attempted due to rocks	
-12.5		
-15.0	- gravel increases in size (medium to coarse)	
-17.5		
-20.0		
-22.5		
-25.0		
-27.5	END OF HOLE @ 27ft BGS Notes: NA - not applicable	*-15.97*
-30.0		
-32.5		

MONITOR INSTALLATION



SCREEN DETAILS
Screened interval:
20.1 to 25.1ft BGS
Length: 5ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
17 to 27ft BGS
Material: No. 1 Sand

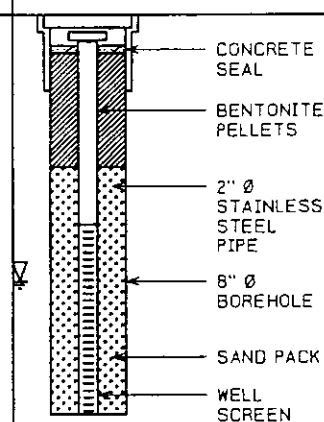
SAMPLE NUMBER	STATE	'N' VALUE	PID (ppm)
1SS		13	0.3
2SS		12	0.4
3SS		26	0.7
4SS		34	0.5
5ST		NA	NA
6SS		66	0.8
7SS		36	3.5
8SS		27	3.1
9SS		20	2.7
10SS		49	3.1
11SS		62	3.0
12SS		NA	NA

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭ GEOTECHNICAL ANALYSIS ▭

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: CRA2S-95
DATE COMPLETED: MAY 17, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*11.05* *10.68*					
	For stratigraphic details, please refer to SB-2.						
2.5							
5.0							
7.5							
10.0	END OF HOLE @ 10.5ft BGS	.55					
12.5							
15.0							
17.5							
20.0							
22.5							
25.0							
27.5							
30.0							
32.5							

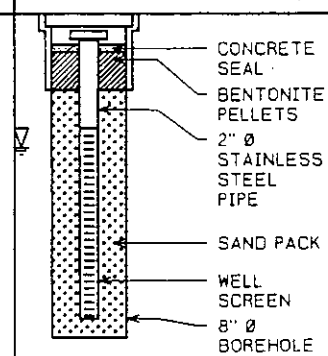
SCREEN DETAILS
Screened interval:
5.5 to 10.5ft BGS
Length: 5ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
4 to 10.5ft BGS
Material: No. 1 Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭ GEOTECHNICAL ANALYSIS ▭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: CRA3-95
DATE COMPLETED: MAY 17, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*7.90* *7.43*					
	For stratigraphic details, please refer to SB-6			1SS		6	10.8
-2.5				2SS		12	15.1
-5.0							
-7.5							
	END OF HOLE @ 8.5ft BGS	-.60					
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

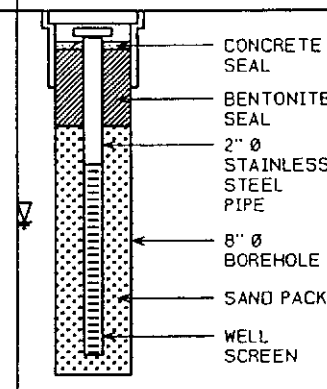
SCREEN DETAILS
Screened interval:
3 to 8ft BGS
Length: 5ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
2 to 8.5ft BGS
Material: No. 1 Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: CRA4S-95
DATE COMPLETED: MAY 23, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*8.72* *8.34*					
	For stratigraphic details, please refer to SB-7						
2.5							
5.0							
7.5							
10.0	END OF HOLE @ 9.5ft BGS	*-.78*	SCREEN DETAILS Screened interval: 4 to 9ft BGS Length: 5ft Diameter: 2" Slot Size: #10 Material: Stainless Steel Sand Pack: 3 to 9.5ft BGS Material: No. 1 Sand				
12.5							
15.0							
17.5							
20.0							
22.5							
25.0							
27.5							
30.0							
32.5							

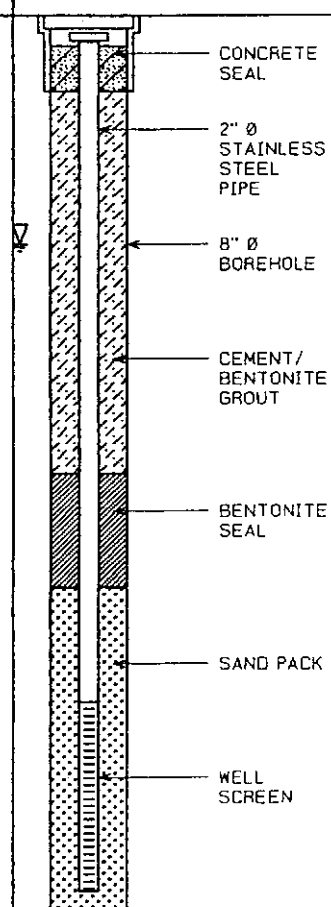
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭ GEOTECHNICAL ANALYSIS ▭

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: CRA6D-95
DATE COMPLETED: MAY 22, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*9.91* *9.49*					
	For stratigraphic detail, please refer to SB-9						
2.5							
5.0							
7.5							
10.0							
12.5							
15.0							
17.5							
20.0							
22.5							
	END OF HOLE @ 23.5BGS	*-13.59*					
25.0							
27.5							
30.0							
32.5							



SCREEN DETAILS
Screened interval:
18 to 23ft BGS
Length: 5ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
15 to 23.5ft BGS
Material: No. 1 Sand

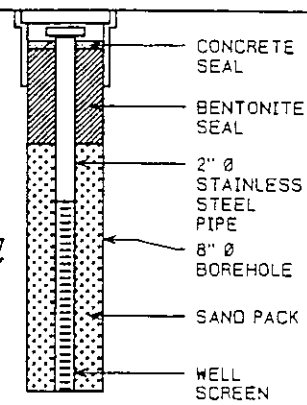
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭ GEOTECHNICAL ANALYSIS ▭

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: SB-9A/CRA6S-95
DATE COMPLETED: MAY 22, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*10.03* *9.73*					
	Asphalt	*9.73*					
	FILL, gravel	*9.03*					
-2.5	SM-SAND, some silt, medium dense, fine grained, gray, dry	*7.03*		1SS		40	130
	SP-SAND, medium dense to loose, poorly graded, brown			2SS		14	143
-5.0				3SS		3	160
-7.5				4SS		5	81
-10.0				5SS		5	70
	END OF HOLE @ 11ft BGS	*-.97*					
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							



SCREEN DETAILS
Screened interval:
5 to 10ft BGS
Length: 5ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
3.5 to 10ft BGS
Material: No. 1 Sand

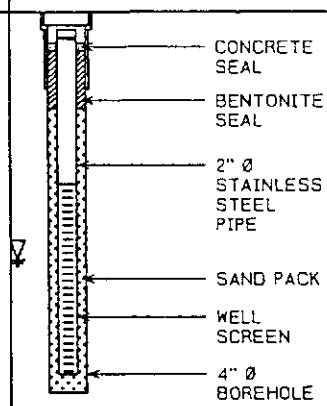
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭ GEOTECHNICAL ANALYSIS ▭

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: SB-11/CRA7-95
DATE COMPLETED: MAY 23, 1995
DRILLING METHOD: 4" TRICONE
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	*11.85* *11.38*					
	Concrete	*11.15*					
-2.5	SM-SAND, some silt, trace fine gravel, extremely dense, well graded, fine grained, brown, dry - 6" GW-GRAVEL seam, some coarse sand	*9.15*		1SS		69	0
-5.0	SP-SAND, extremly dense, poorly graded, fine grained, brown			2SS		200	0
				3SS		NA	0
-7.5				4SS		NA	0
-10.0	END OF HOLE @ 9.5ft BGS NOTES: NA - not applicable, used 300 lb. hammer.	*2.15*					
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							



SCREEN DETAILS
Screened interval:
4.5 to 9.5ft BGS
Length: 10ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
2.5 to 10ft BGS
Material: No. 1 Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭

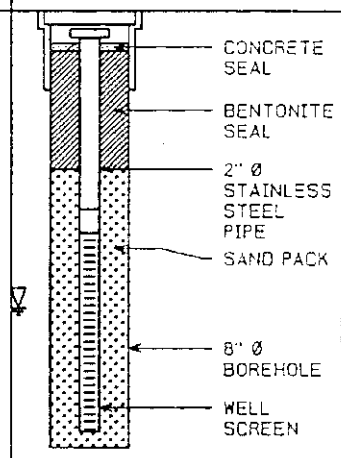
STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(CL-27)
Page 1 of 1

PROJECT NAME: SYNTHETIC PRODUCTS
PROJECT NUMBER: 3627
CLIENT: KRAFT FOODS
LOCATION: STRATFORD, CONNECTICUT

HOLE DESIGNATION: SB-13/CRA8-95
DATE COMPLETED: MAY 25, 1995
DRILLING METHOD: 4 ¼" HSA
CRA SUPERVISOR: J. HARGENS

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	12.77 12.28					
	Asphalt	12.47					
	FILL, gravel	11.77					
2.5	SP-SAND, medium dense to loose, poorly graded, fine to medium grained, brown, dry			1SS		9	0.1
5.0				2SS		4	0.1
				3SS		9	0.2
7.5				4SS		14	0.2
		3.77					
10.0	GW-GRAVEL, little medium to fine sand, medium to coarse grained, rounded-unlike other gravel on Site, brown, wet			5SS		16	0.1
	END OF HOLE @ 11ft BGS	1.77					
12.5							
15.0							
17.5							
20.0							
22.5							
25.0							
27.5							
30.0							
32.5							



SCREEN DETAILS
Screened interval:
5.6 to 10.6ft BGS
Length: 5ft
Diameter: 2"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
4 to 11ft BGS
Material: No. 1 Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭ GEOTECHNICAL ANALYSIS ▭

NAME: _____
I.D. NO.: _____
FILE LOC: _____
OTHER: _____

SEVENTH YEAR (1991) ANNUAL

GROUND WATER MONITORING REPORT

CONTRACT PLATING COMPANY
540 LONGBROOK AVENUE
STRATFORD, CT

HRP # CON6013.GW

ISSUED
MARCH 1, 1992

by Dennis R. Mac Caskie
Senior Project Geologist
HRP ASSOCIATES, INC.

g\mac\conplate.anl

HRP
ASSOCIATES, INC.

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APPENDIX C

WELL COMPLETION REPORTS

MONITOR WELL COMPLETION REPORT

WELL MW-2A

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 9/3/91

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
east side former sludge drying beds

Drilling Contractor:
Kennedy & Sons Test Boring
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/4" i.d. hollow stem augers

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 19.0'

Well depth below ground: 20'

Top of casing elevation: 20.22'

Refusal: No

Length of screen: 10 feet

Screened interval: 10' - 20'

Length of riser pipe: 21 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm

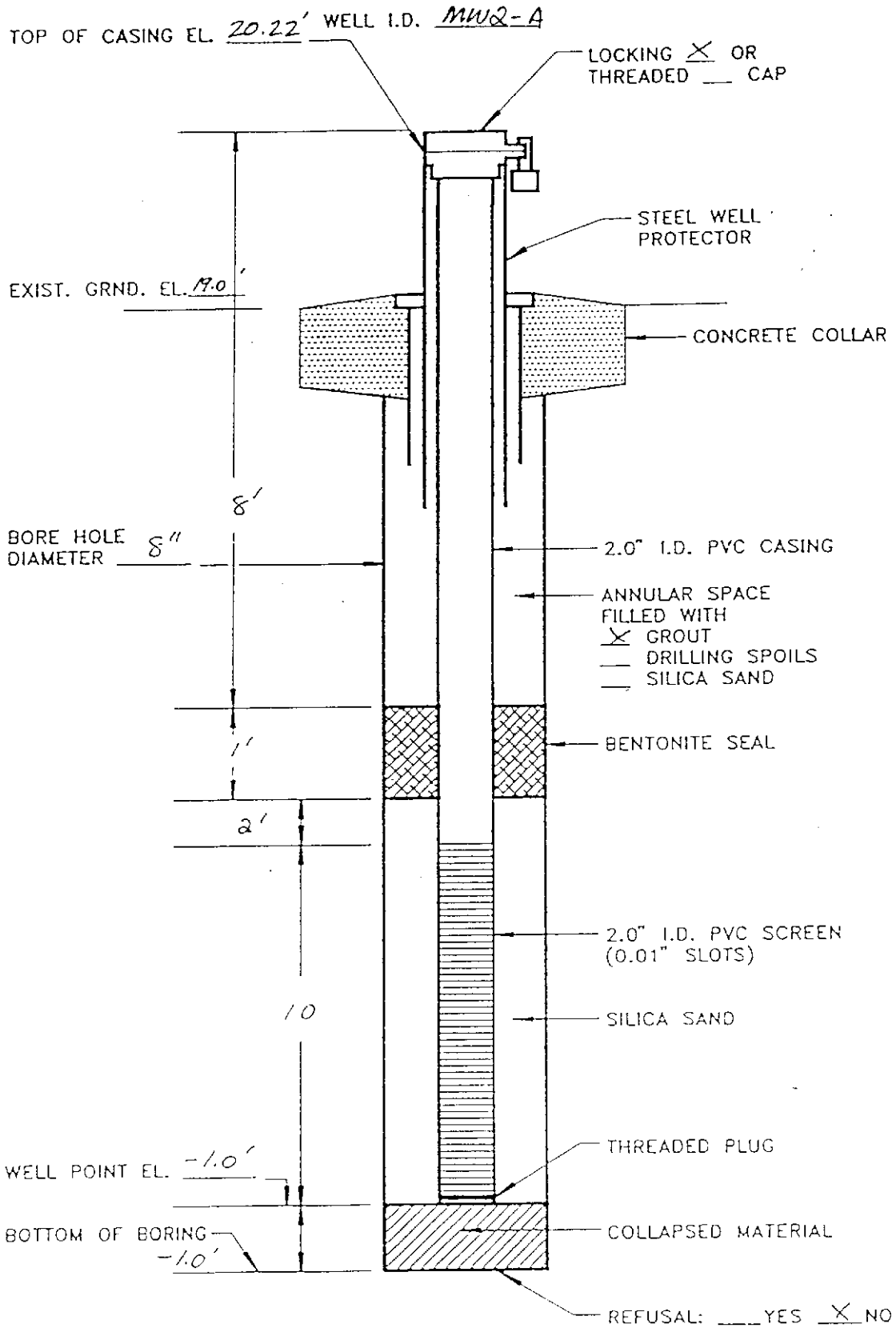
Impermeable backfill: bentonite

Sealed intervals:
bentonite 7' - 8'
grout 2' - 7'

Method of development: bailing

Locking cap

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



MONITOR WELL COMPLETION REPORT

WELL MW-3A

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 9/3/91

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
northeast of former sludge storage pit

Drilling Contractor:
Kennedy & Sons Test Boring
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/4" i.d. hollow stem augers

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 18.3'

Well depth below ground: 22'

Top of casing elevation: 19.59'

Refusal: No

Length of screen: 10 feet

Screened interval: 12' - 22'

Length of riser pipe: 23 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm

Impermeable backfill: bentonite

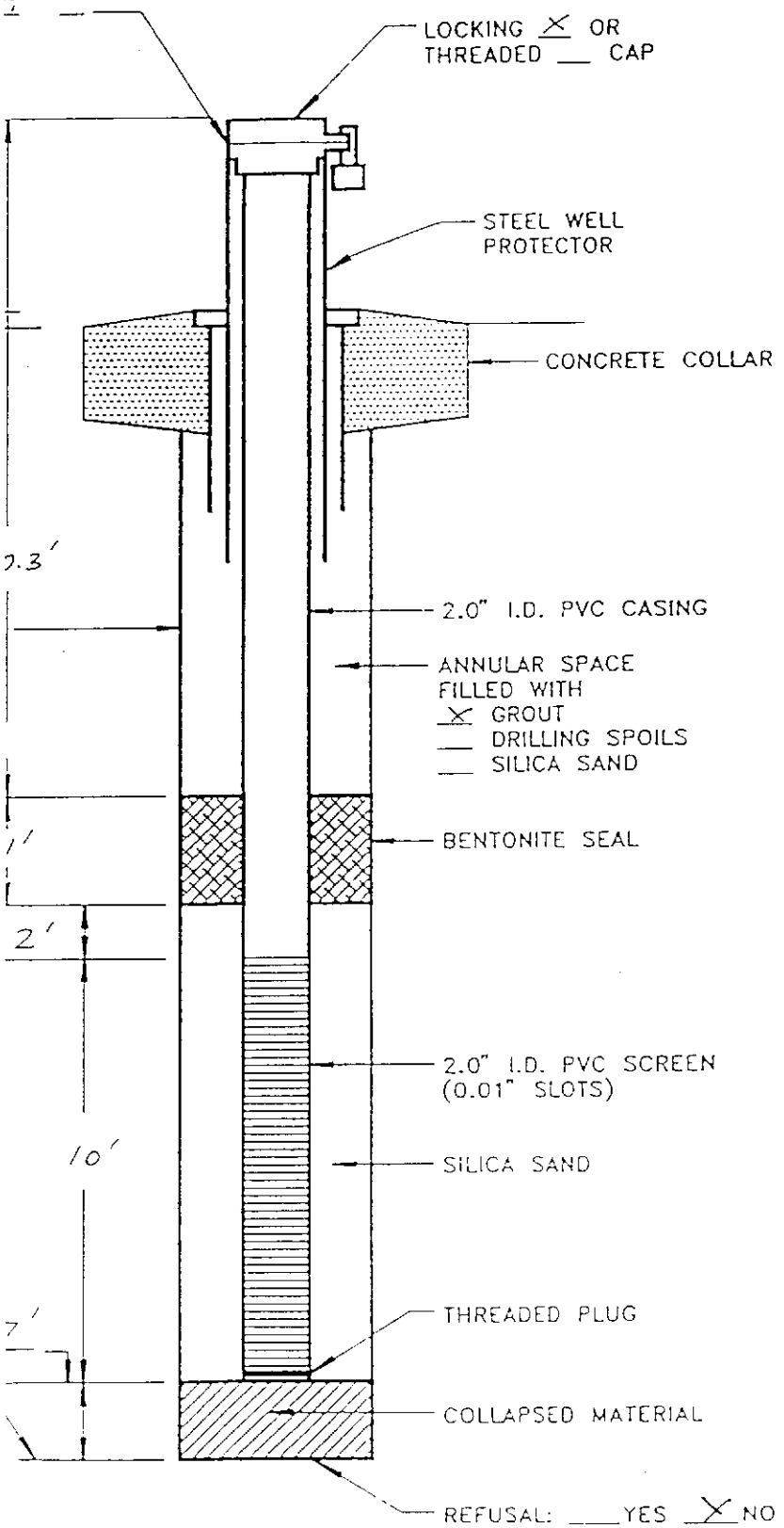
Sealed intervals:
bentonite 9' - 10'
grout 2' - 9'

Method of development: bailing

Locking cap

NITOR WELL INSTALLATION DETAIL
WELL IN UNCONSOLIDATED DEPOSIT

WELL I.D. MW34



RT

und: 21'

- 21'

10 PVC

sand
m

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MONITOR WELL COMPLETION REPORT

WELL MW-5

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 8/8/90

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
southeast corner boiler house

Drilling Contractor:
Associated Borings Co.
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/2 inch hollow stem augers.

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 17.4'

Well depth below ground: 19'

Top of casing elevation: 17.31

Refusal: ___Yes _X_No

Length of screen: 10 feet

Screened interval: 9'-19'

Length of riser pipe: 10 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness:

Impermeable backfill: bentonite
Annular space above screen pack
grouted to surface

Sealed intervals: 5'-8'

Method of development: bailing

Locking _ or threaded X cap

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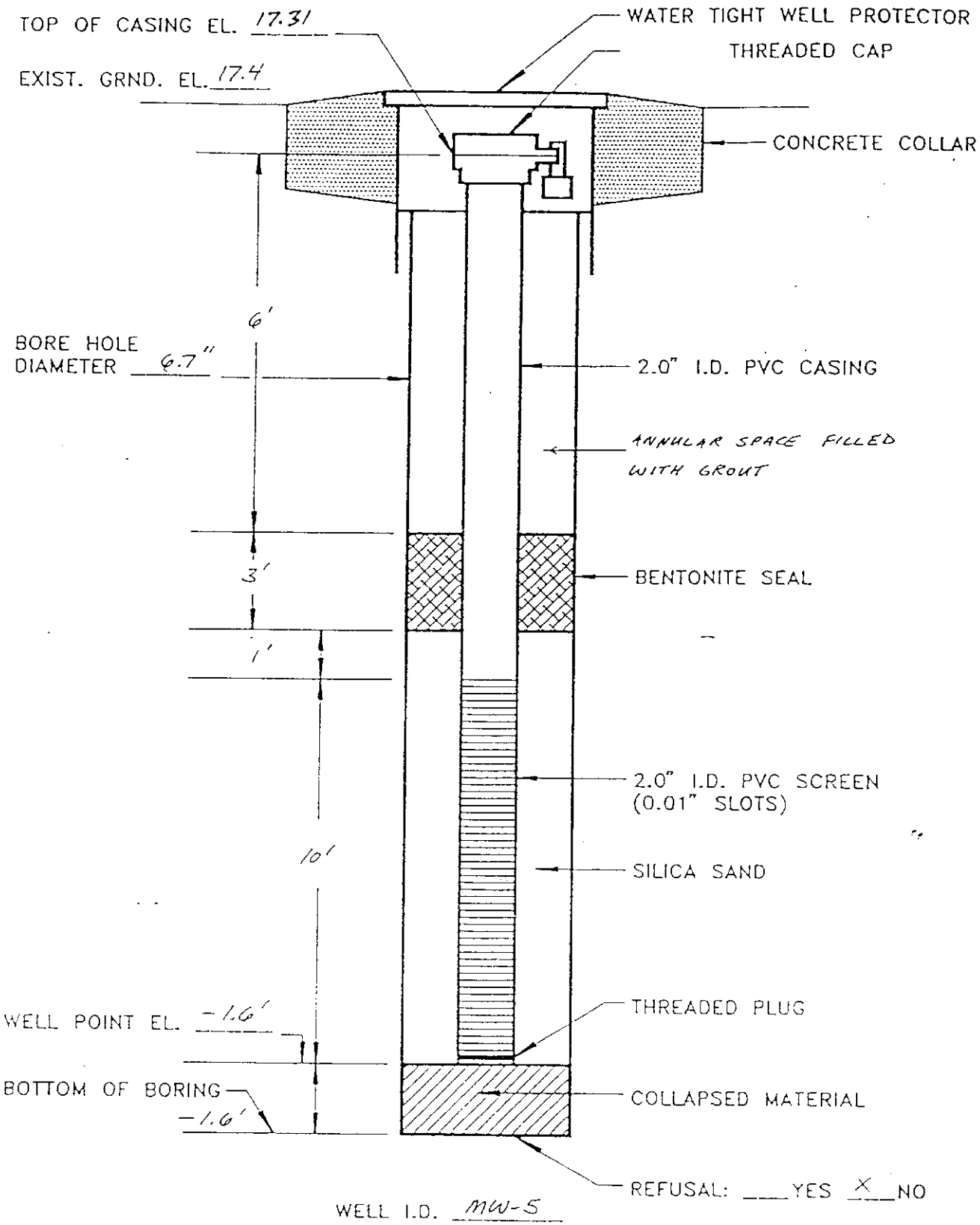
MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



WELL I.D. MW-5

MONITOR WELL COMPLETION REPORT

WELL MW-6

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 8/8/90

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
northeast corner filter press building

Drilling Contractor:
Associated Borings Co.
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/2 inch hollow stem augers.

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 17.3'

Well depth below ground: 19'

Top of casing elevation: 17.06

Refusal: ___Yes _X_No

Length of screen: 10 feet

Screened interval: 9'-19'

Length of riser pipe: 10 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness:

Impermeable backfill: bentonite
Annular space above screen pack grouted to surface

Sealed intervals: 6.5'-8'

Method of development: bailing

Locking _ or threaded X cap

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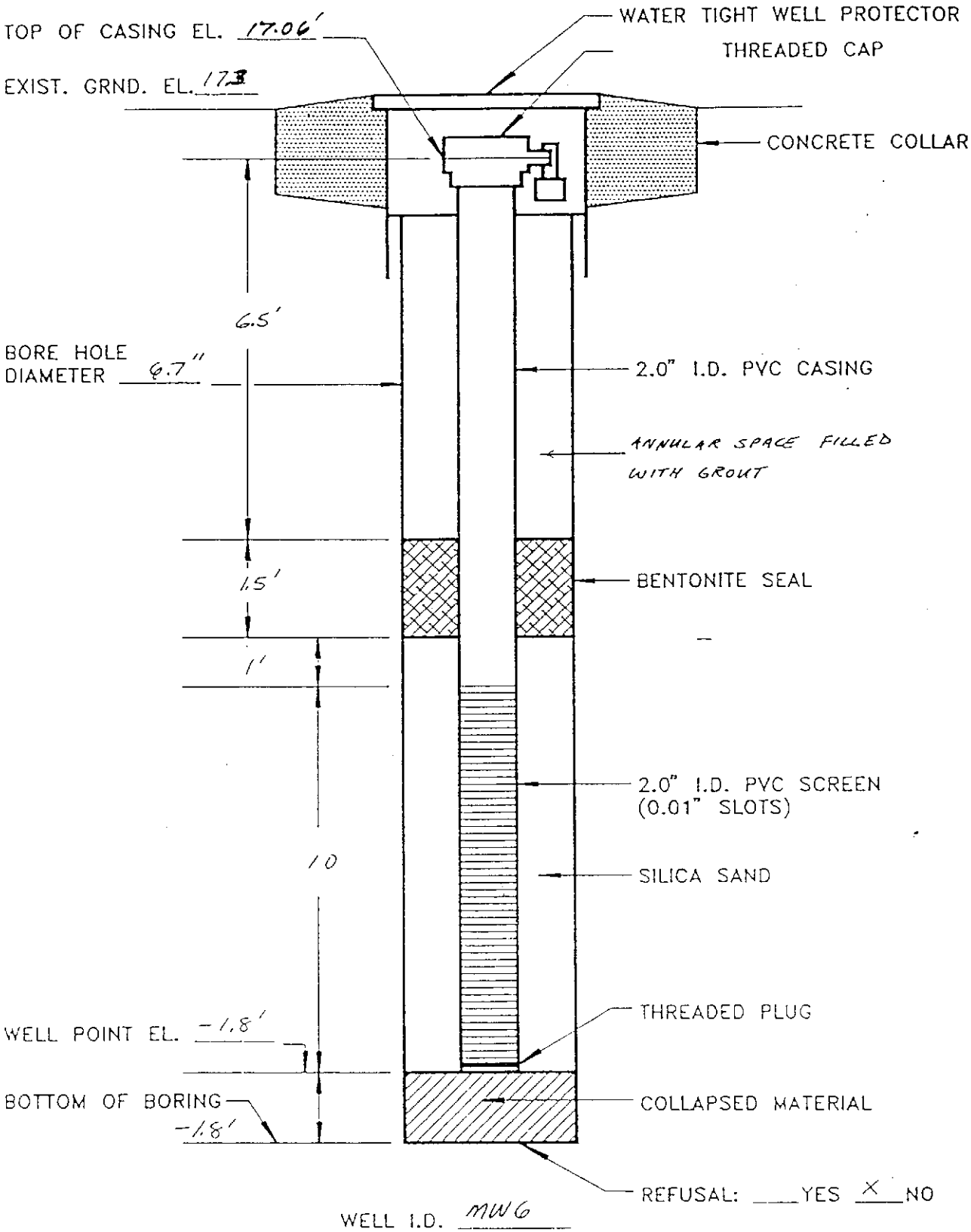
MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



WELL I.D. MW6

MONITOR WELL COMPLETION REPORT

WELL MW-7

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 8/14/90

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
50' NW of sewer line, NE of sludge storage pit

Drilling Contractor:
Associated Borings Co.
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/2 inch hollow stem augers.

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 18.5

Well depth below ground: 39'

Top of casing elevation: 19.89

Refusal: X Yes ___No

Length of screen: 10 feet

Screened interval: 29'-39'

Length of riser pipe: 30 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness:

Impermeable backfill: bentonite
Annular space filled with grout

Sealed intervals: 25.5'-27.5'

Method of development: bailing

Locking X or threaded _ cap

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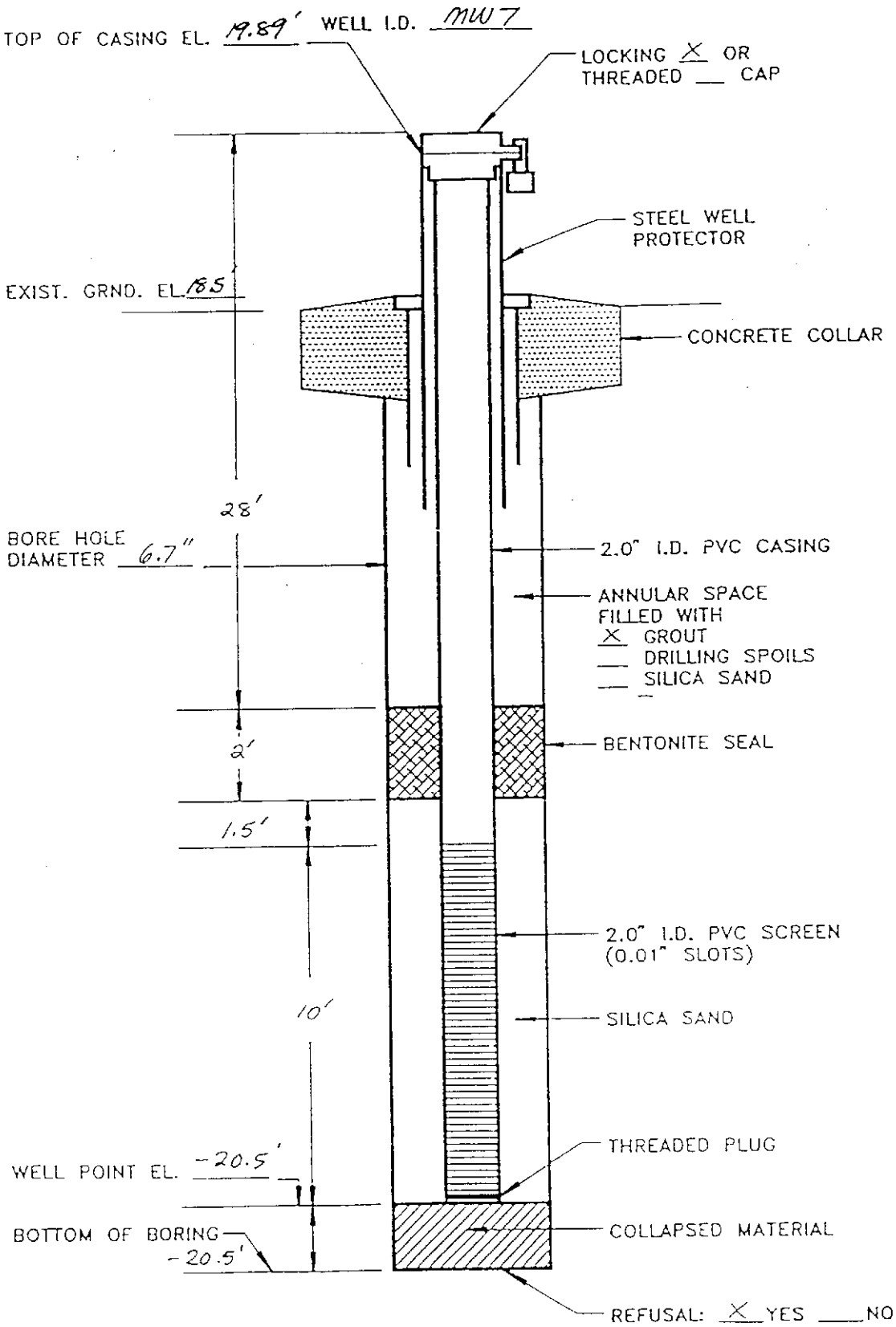
MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



MONITOR WELL COMPLETION REPORT

WELL MW-8

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 8/15/90

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
north of sludge storage pit

Drilling Contractor:
Associated Borings Co.
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/2 inch hollow stem augers.

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 17.9

Well depth below ground: 20'

Top of casing elevation: 19.46

Refusal: ___Yes _X_No

Length of screen: 10 feet

Screened interval: 10'-20'

Length of riser pipe: 12 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness:

Impermeable backfill: bentonite
Annular space filled with grout

Sealed intervals: 7'-8'

Method of development: bailing

Locking X or threaded _ cap

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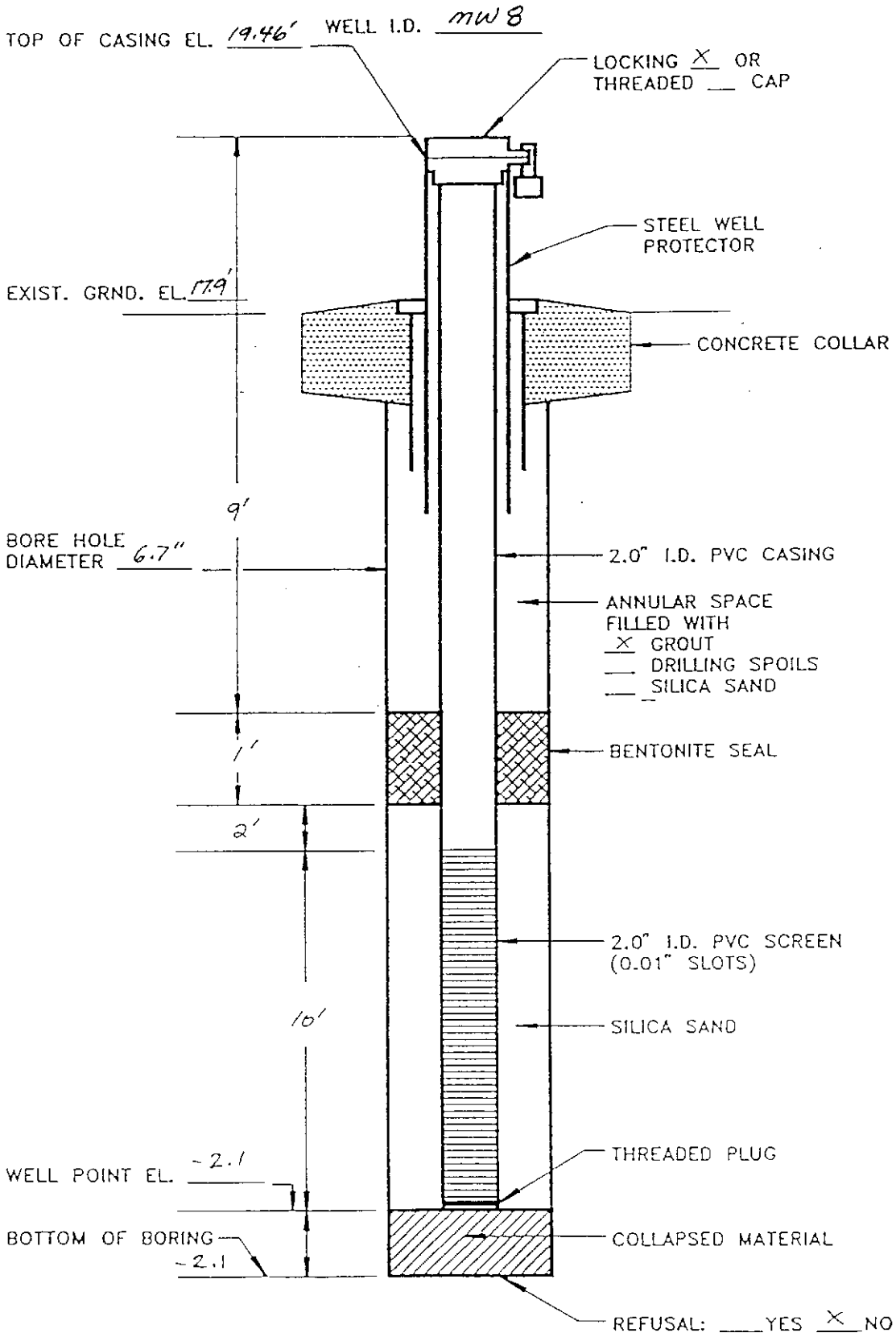
MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



MONITOR WELL COMPLETION REPORT

WELL MW-9

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 8/21/90

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
between former lagoons, north of sludge storage pit

Drilling Contractor:
Associated Borings Co.
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/2 inch hollow stem augers.

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 20.2

Well depth below ground: 23'

Top of casing elevation: 21.74

Refusal: ___Yes _X_No

Length of screen: 10 feet

Screened interval: 13'-23'

Length of riser pipe: 15 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness:

Impermeable backfill: bentonite
Annular space filled with grout

Sealed intervals: 11.5'-12.5'

Method of development: bailing

Locking X or threaded _ cap

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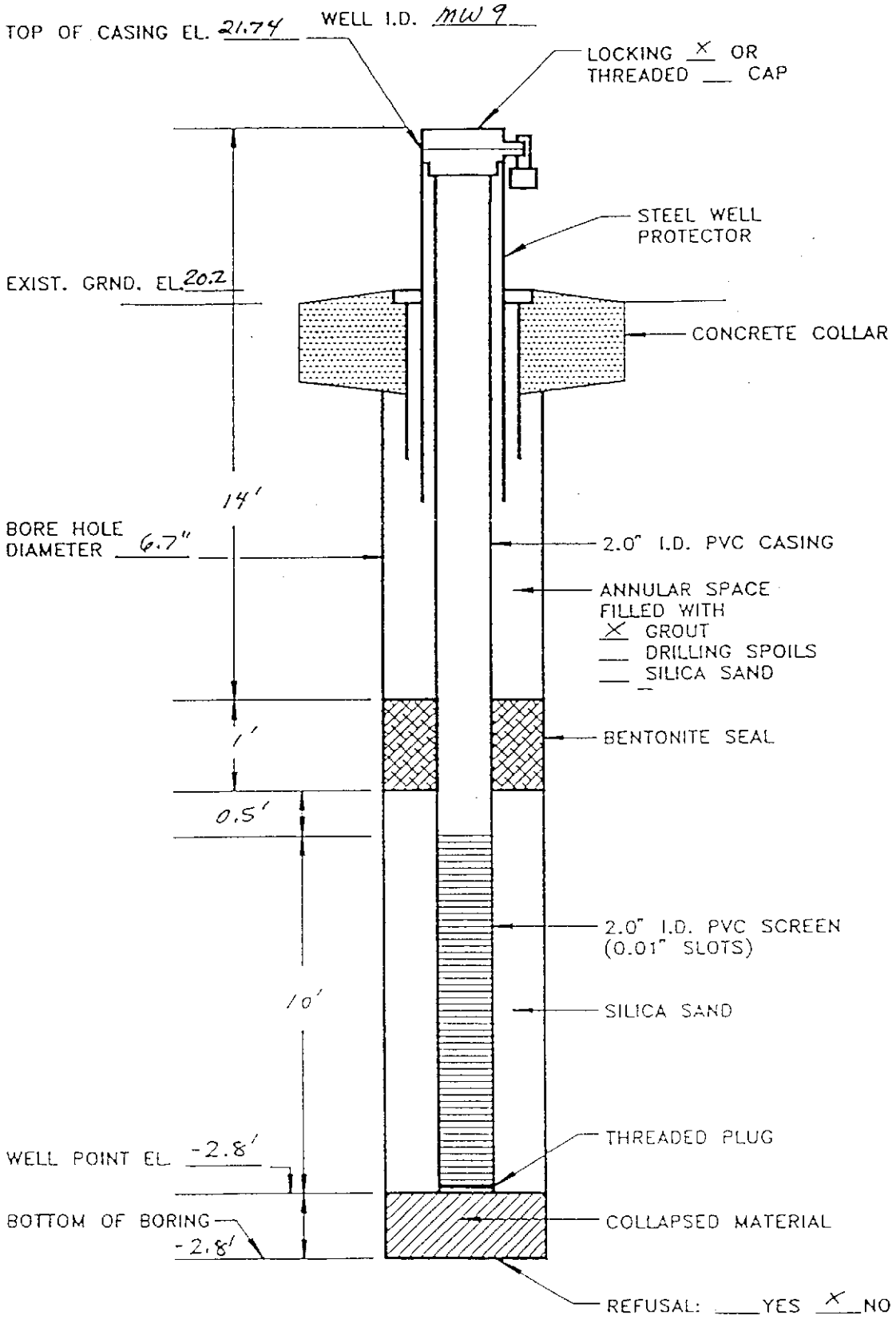
MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



MONITOR WELL COMPLETION REPORT

WELL MW-10

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 8/21/90

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
3 feet SW of manhole, 97 feet from northeast corner of property

Drilling Contractor:
Associated Borings Co.
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/2 inch hollow stem augers.

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 20.5

Well depth below ground: 23'

Top of casing elevation: 22.70

Refusal: ___Yes _X_No

Length of screen: 10 feet

Screened interval: 13'-23'

Length of riser pipe: 15 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness:

Impermeable backfill: bentonite
Annular space filled with grout

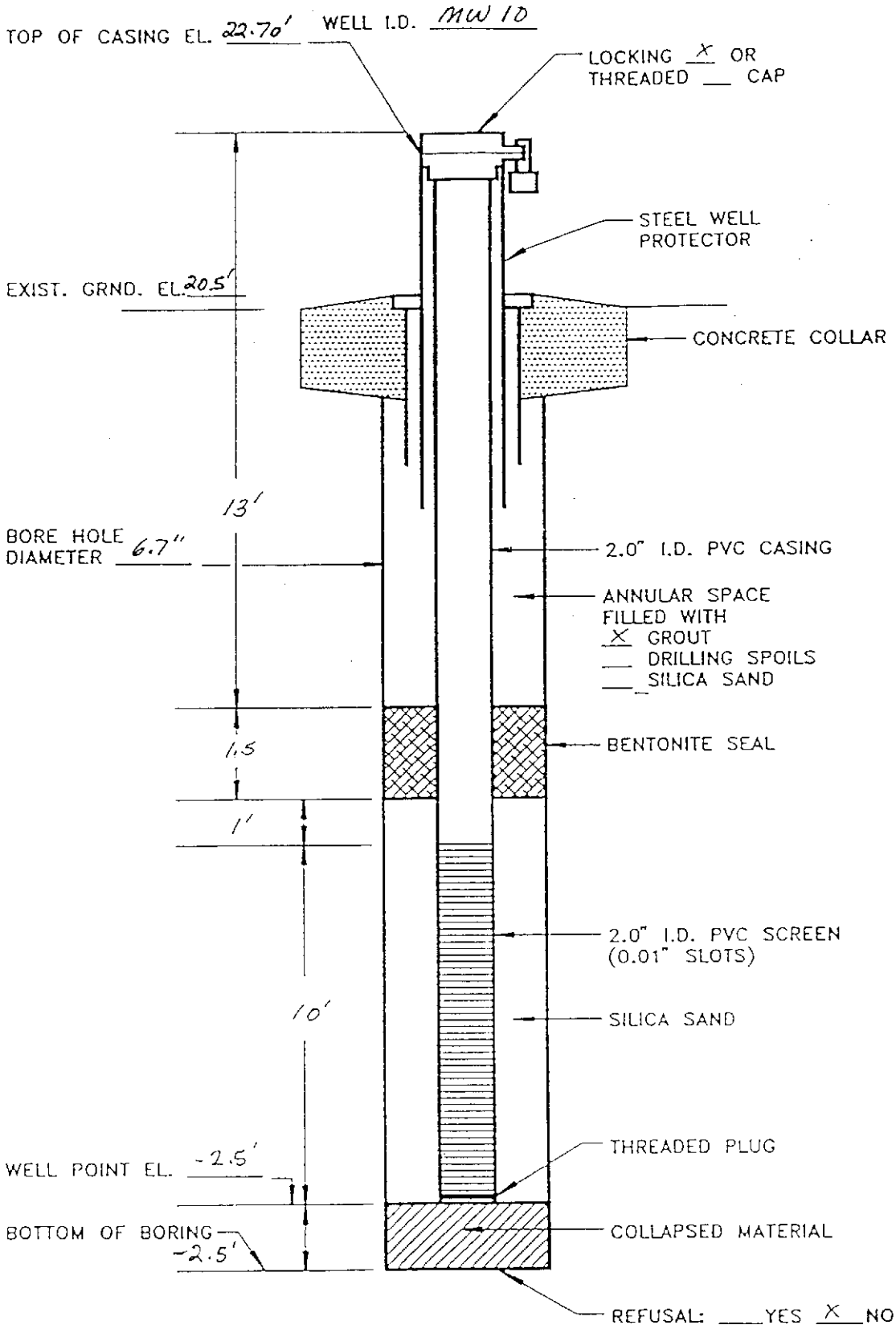
Sealed intervals: 10.5'-12'

Method of development: bailing

Locking X or threaded _ cap

HRP
ASSOCIATES, INC.

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



MONITOR WELL COMPLETION REPORT

WELL BR-1

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 9/4/91

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
north-northeast of former sludge storage pit, 5' E of MW-8

Drilling Contractor:
Kennedy & Sons
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 inch i.d. HW casing

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 17.9

Well depth below ground: 42.5

Top of casing elevation: 19.41

Refusal: at 27.5' depth

Length of screen: 10 feet

Screened interval: 32.5' - 42.5'

Length of riser pipe: 34 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness: 4.5" diameter

Impermeable backfill: bentonite

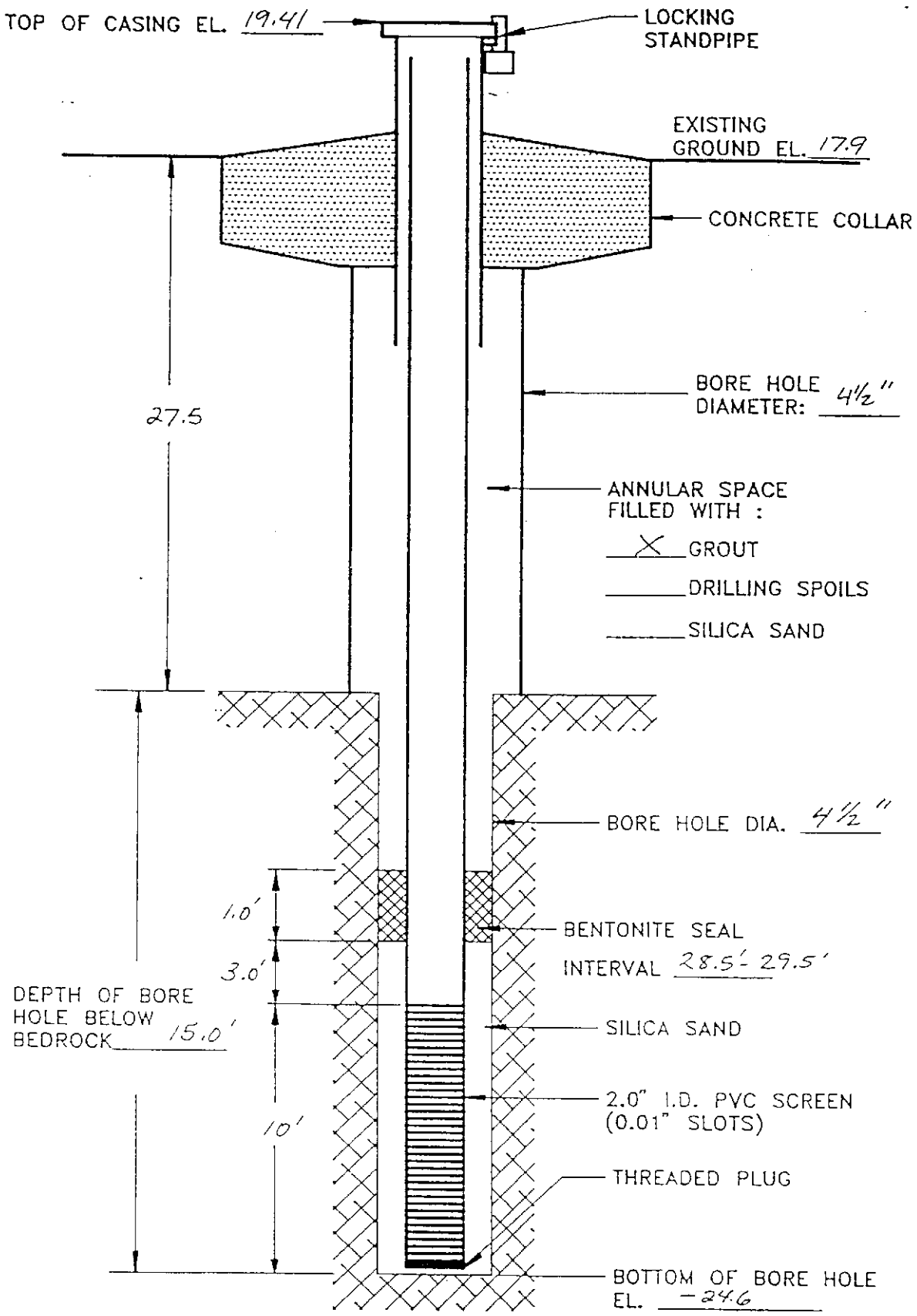
Sealed intervals: 28.5'- 29.5'

Method of development: bailing

Locking cap

FOR WELL IN BEDROCK

MONITOR WELL I.D. BR1



CPLATING\BEDWELL

MONITOR WELL COMPLETION REPORT

WELL BR-2

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 9/11/91

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
east of sludge storage pit between wells MW-2A and MW-3A

Drilling Contractor:
Kennedy & Sons
Naugatuck

Supervising Geologist:
Jeffrey Sotek

Well Construction Method: 4 inch i.d. HW casing

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 18.9'

Well depth below ground: 55'

Top of casing elevation: 21.10'

Refusal: at 40' depth

Length of screen: 10 feet

Screened interval: 45' - 55'

Length of riser pipe: 47 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness: 4.5" diameter

Impermeable backfill: bentonite

Sealed intervals: 42' - 43'

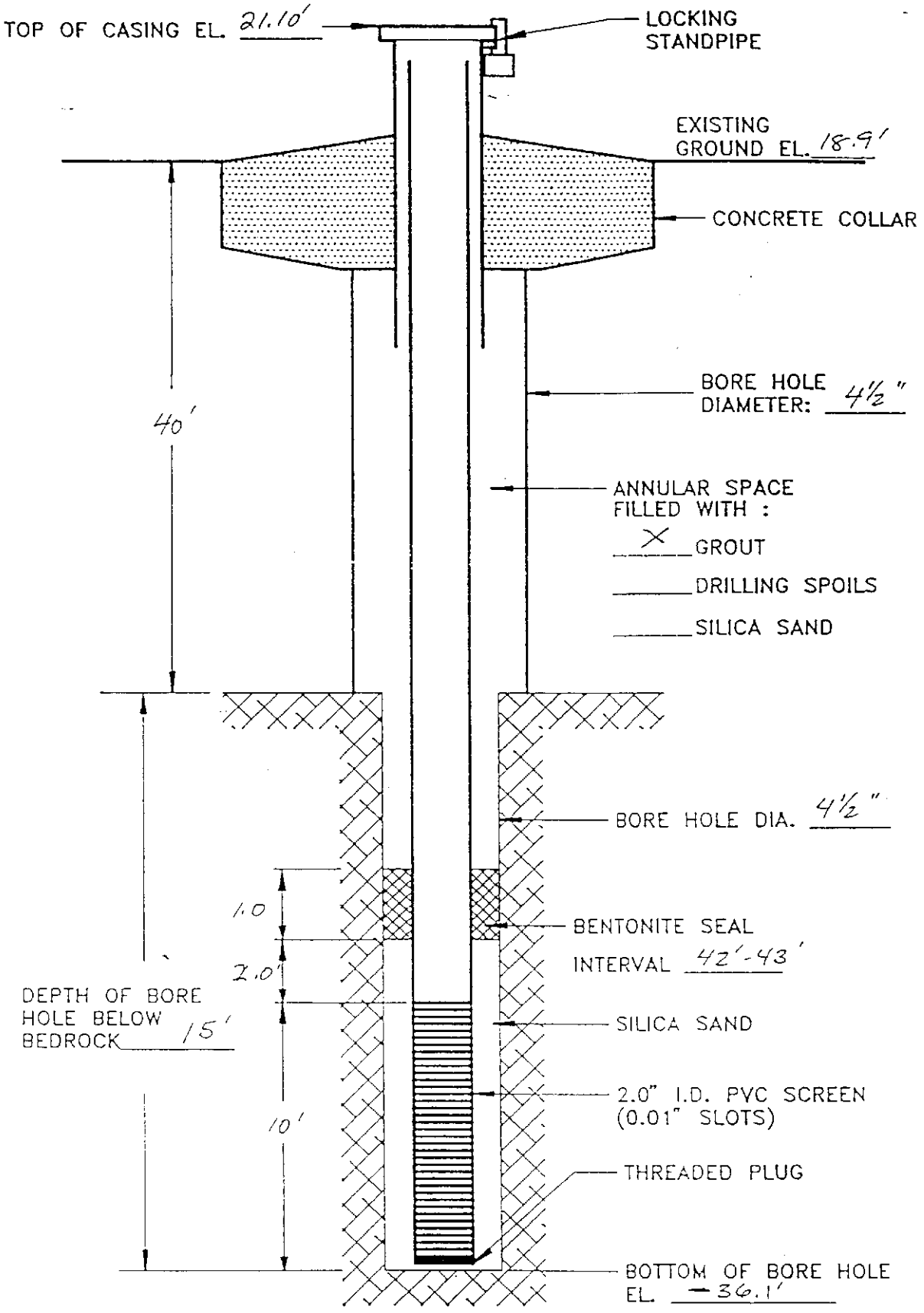
Method of development: bailing

Locking _ or threaded X cap

HRP
ASSOCIATES, INC.

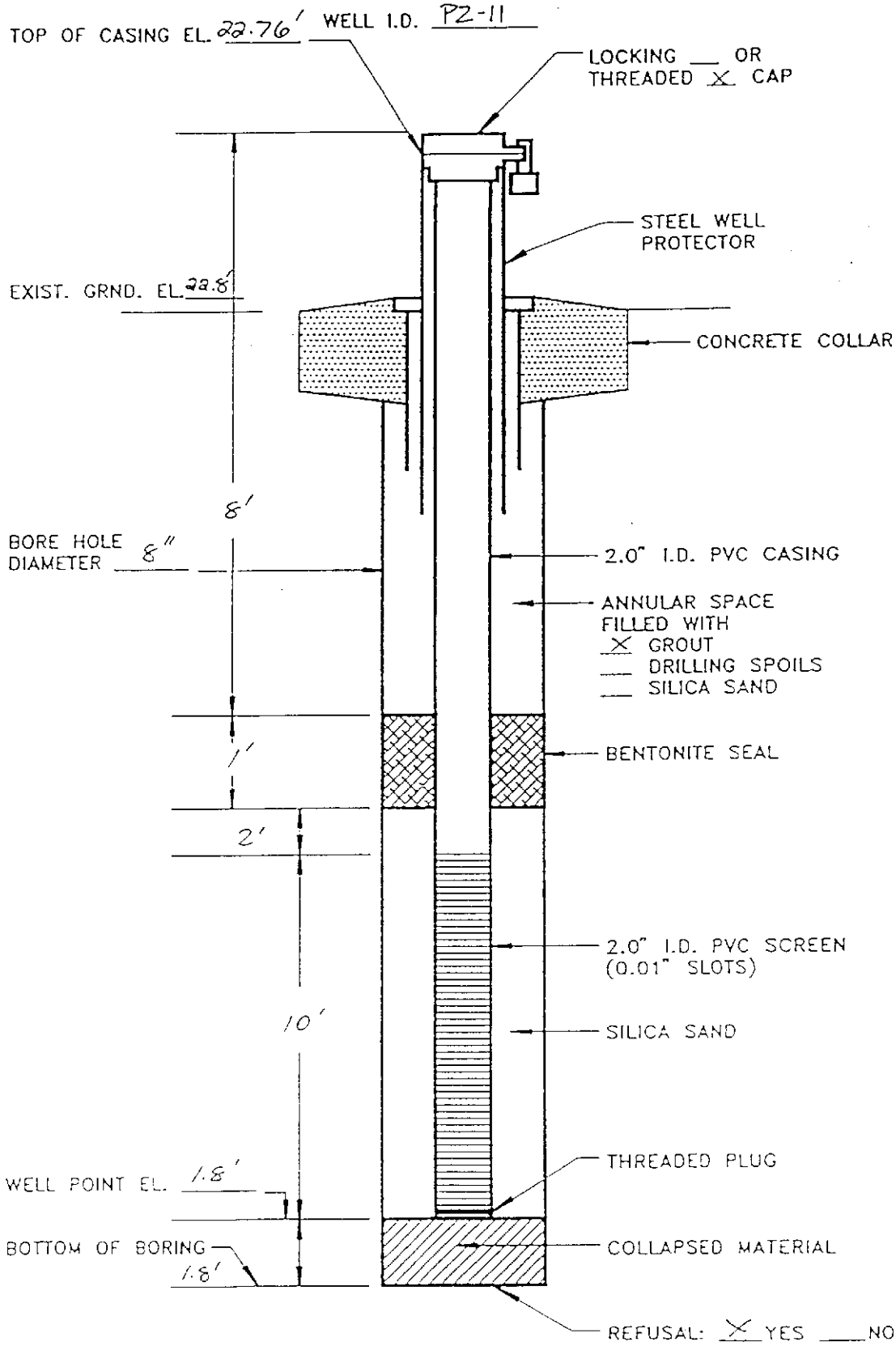
FOR WELL IN BEDROCK

MONITOR WELL I.D. BR2



CPLATING\BEDWELL

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



PIEZOMETER COMPLETION REPORT

PIEZOMETER PZ-12

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 4/9/91

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
between boiler house and anodizing building

Drilling Contractor:
Kennedy & Sons Test Boring
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/4" i.d. hollow stem augers

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 18.8'

Well depth below ground: 17'

Top of casing elevation: 18.67'

Refusal: Yes

Length of screen: 10 feet

Screened interval: 7' - 17'

Length of riser pipe: 7 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm

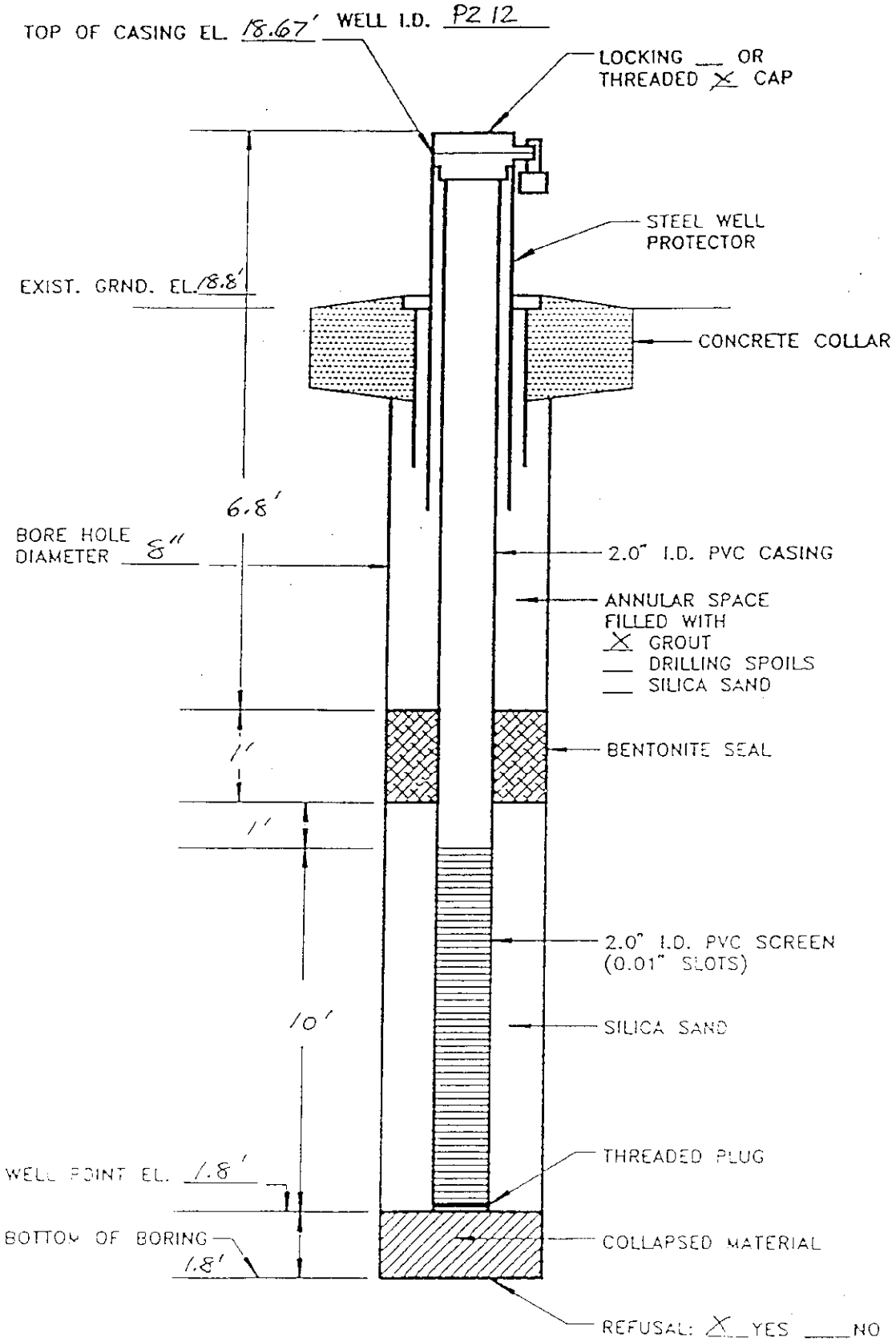
Impermeable backfill: bentonite

Sealed intervals:
bentonite 5' - 6'
grout 2' - 5'

Method of development: bailing

Locking cap

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



PIEZOMETER COMPLETION REPORT

PIEZOMETER PZ-13

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 4/8/91

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
west edge of landfill cap

Drilling Contractor:
Kennedy & Sons Test Boring
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/4" i.d. hollow stem augers

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 18.5'

Well depth below ground: 17.5'

Top of casing elevation: 17.94'

Refusal: No

Length of screen: 10 feet

Screened interval: 7.5' - 17.5'

Length of riser pipe: 7.5 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm

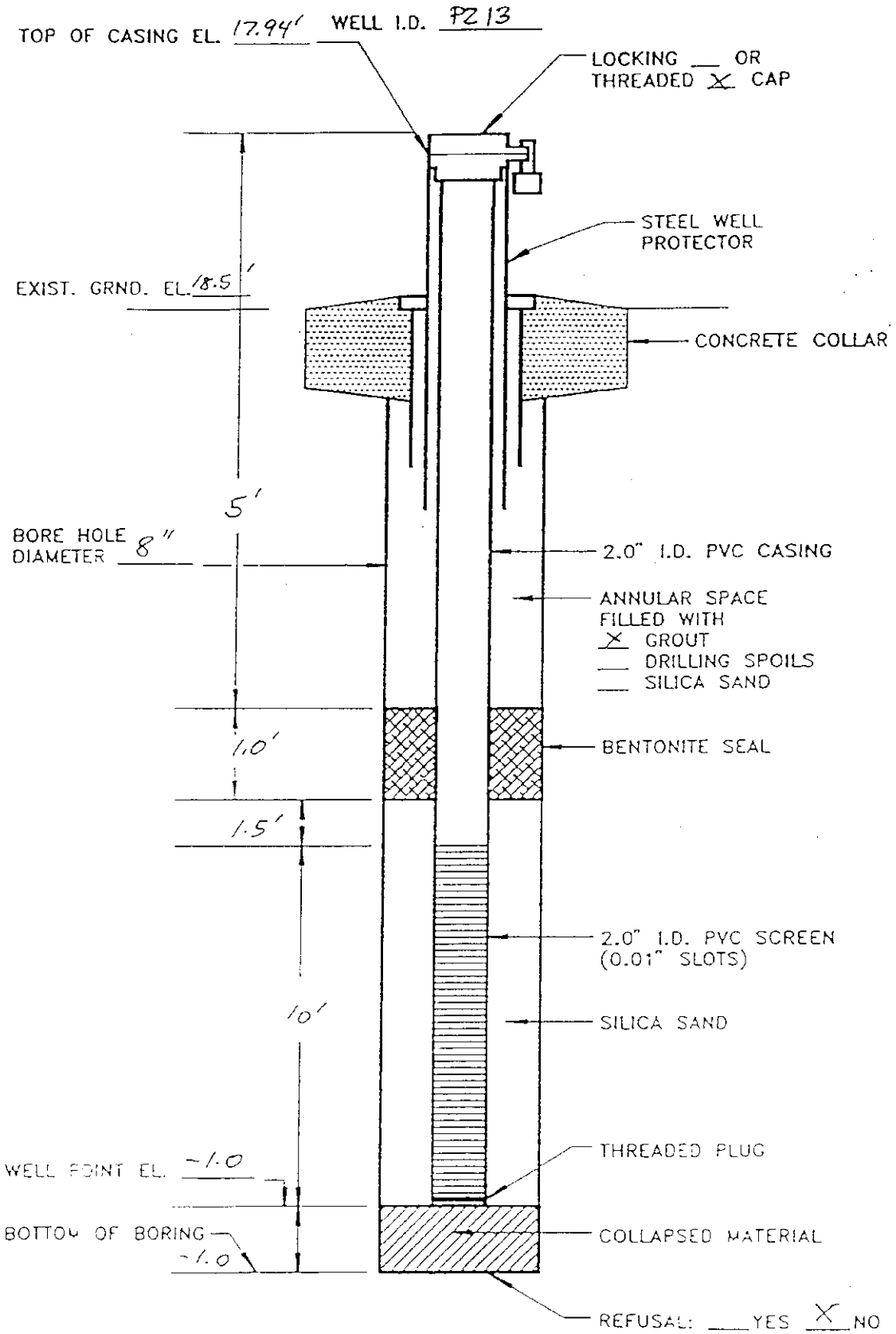
Impermeable backfill: bentonite

Sealed intervals:
bentonite 5' - 6'
grout 2' - 5'

Method of development: bailing

Locking cap

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



PIEZOMETER COMPLETION REPORT

PIEZOMETER PZ-14

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 4/8/91

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
west edge of landfill cap between anodizing building and former sludge storage pit

Drilling Contractor:
Kennedy & Sons Test Boring
Naugatuck

Supervising Geologist:
Dennis R. Mac Caskie

Well Construction Method: 4 1/4" i.d. hollow stem augers

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 18.4'

Well depth below ground: 18'

Top of casing elevation: 17.59'

Refusal: No

Length of screen: 10 feet

Screened interval: 8' - 18'

Length of riser pipe: 8 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm

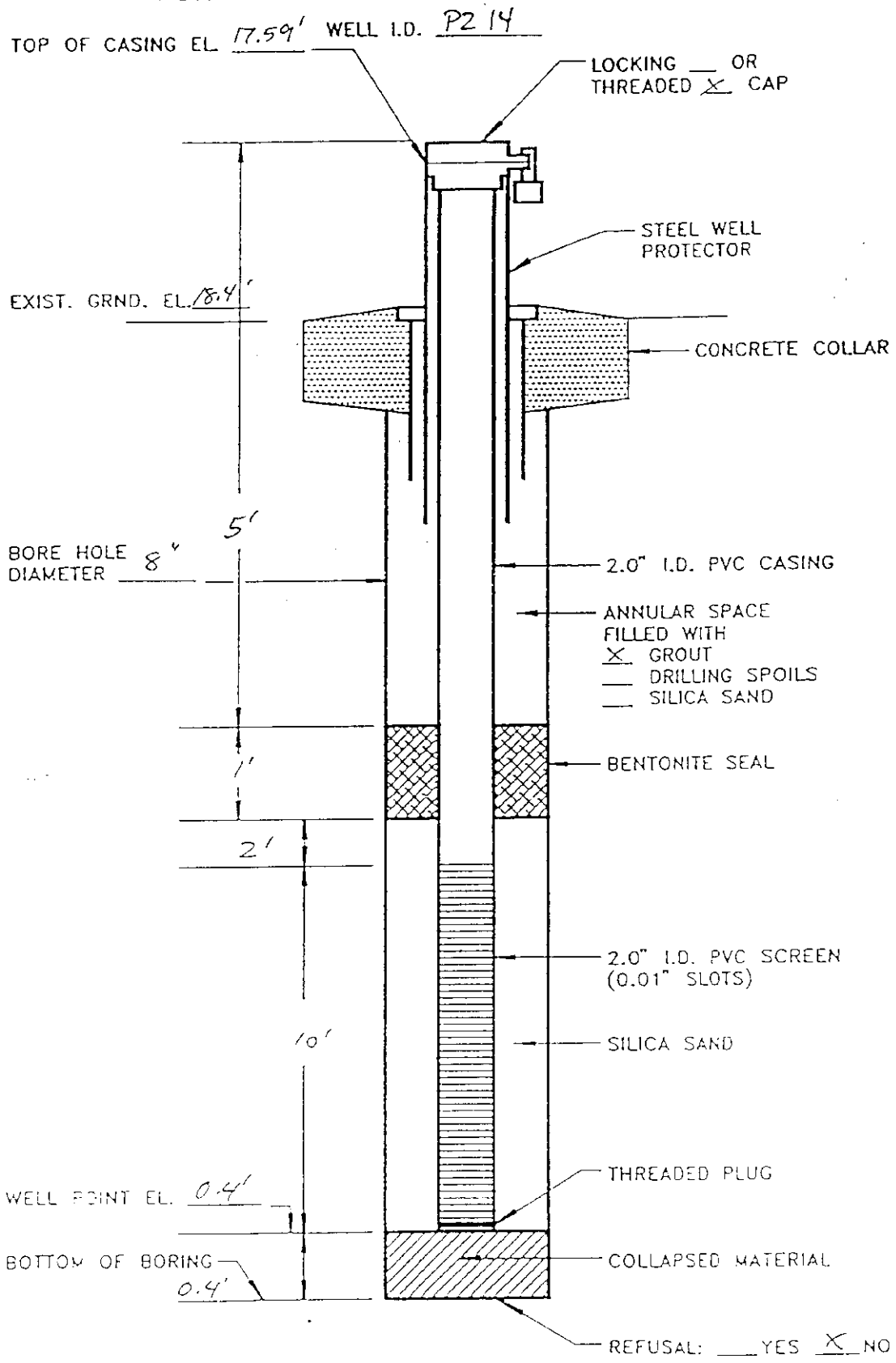
Impermeable backfill: bentonite

Sealed intervals:
bentonite 5' - 6'
grout 1' - 5'

Method of development: bailing

Locking cap

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



CONTRACT PLATING COMPANY
INCORPORATED
ESTABLISHED 1954
METAL FINISHERS
540 LONGBROOK AVENUE
STRATFORD, CT 06497
VERONICA ROTZAL PETERS
PHONE (203) 375-4437

POST-CLOSURE PART B PERMIT APPLICATION FOR CONTRACT PLATING COMPANY, INC. 540 LONGBROOK AVENUE STRATFORD, CONNECTICUT

EPA I.D. CTD001180462

HRP #CON6010.RC

DECEMBER, 1991

Prepared by:

Richard D. McFee
Senior Project Manager

Mark C. Possidento, P.E.
Principal, Engineering Services

Submitted to:

Mr. Ravi Mehta
Contract Plating Company, Inc.
540 Longbrook Avenue
Stratford, Connecticut

Submitted by:

HRP Associates, Inc.
Engineering and Geology
167 New Britain Avenue
Plainville, Connecticut

e/rdm/con6010.rc/ad

HRP
ASSOCIATES, INC.

MW-1

MONITOR WELL COMPLETION REPORT

GENERAL INFORMATION

Town: STRATFORD

Site: CONTRACT PLATING CO.

Monitoring Point I.D. No.: MW #1
DRILLERS LOG MW #18

Date of completion: 6/14/93

DEP/WPC I.D. No:

Monitoring Point Location (relative to site features): REFER TO FIGURE 4-1

Drilling Contractor: EAST COAST DRILLING & BORING, INC.

Supervising Engineer/Geologist: P. MISUK

Well Construction Method: 3 1/2" Hollow Stem Auger

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

Well depth below ground surface: 21.0'

Refusal: X Yes ___ No @ 21.0'

Top of casing elevation (MSL):

Screened interval: 11.0 – 21.0'

Length of Screen: 10.0'

Length of riser pipe: 12.0'

Screen type: SCH 40 PVC

Screen Slot size: .010"

Filter fabric: X Yes ___ No

Screen packing: X Yes ___ No

If yes, Thickness: 10.0'

Material: OTTOWA SAND

grain size: UNKNOWN

Well inside diameter: 2.0"

Impermeable Backfill: BENTONITE

Well casing material and schedule: 40 PVC

Estimated K screened interval: 100'-300'/D
ESTIMATE BASED ON MATERIAL TYPE

Method of well development: BAILING

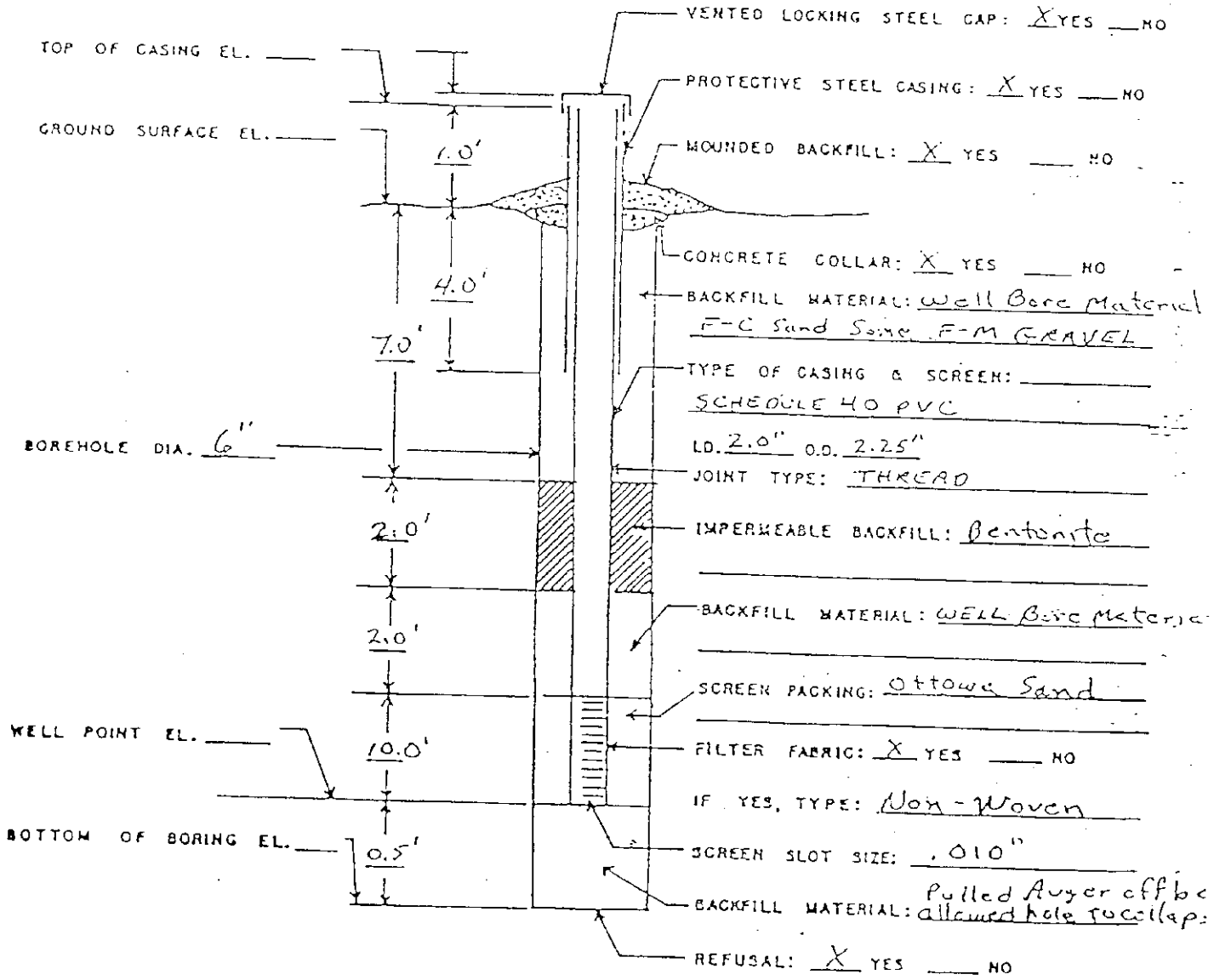
Time spent developing: 1 HR

Locking X or threaded cap ___

Impermeable backfill: 1' Concrete
AROUND METAL PROTECTIVE SLEEVE

MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

MW-1



MW-4

MONITOR WELL COMPLETION REPORT

GENERAL INFORMATION

Town: STRATFORD CT

Site: CONTRACT PLATING

Monitoring Point I.D. No.: MW-4

Date of completion: 7/28/84

DEP/WPC I.D. No:

Monitoring Point Location (relative to site features): SOUTHEAST CORNER OF BUILDING (FF

Drilling Contractor: EAST COAST DRILLING

Supervising Engineer/Geologist:

Well Construction Method: 3 1/4" I.D. HOLLOW STEM AUGER BORING

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

Well depth below ground surface:

Refusal: ___ Yes X No

Top of casing elevation (MSL):

Screened interval: -10.0' TO -25.0'

Length of Screen: 15.0'

Length of riser pipe: 10.0'

Screen type: PVC

Screen Slot size: 0.010"

Filter fabric: X Yes ___ No

Screen packing: ___ Yes X No

If yes, Thickness:

Material:

grain size:

Well inside diameter: 2.0"

Impermeable Backfill: BENTONITE

Well casing material and schedule: PVC 40

Estimated K screened interval:

Method of well development: PUMPING

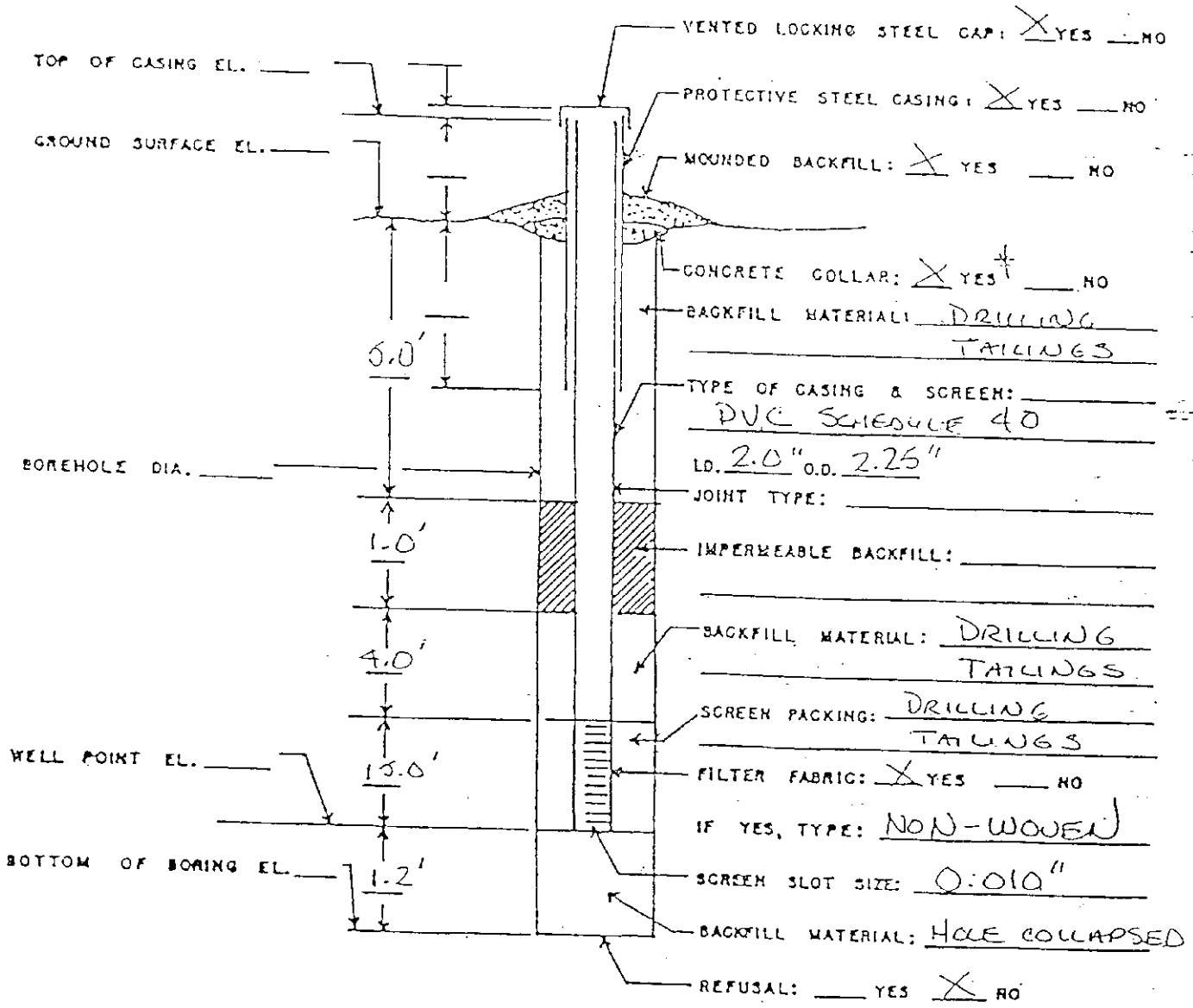
Time spent developing: 30 MIN.

Locking X or threaded cap ___

Impermeable backfill: BENTONITE AND CONCRETE

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT

MW-4



* NOTE: BENTONITE IMMEDIATELY BELOW CONCRETE CAP

MONITOR WELL COMPLETION REPORT

WELL MW-X

GENERAL INFORMATION

Site: Contract Plating Co.
540 Longbrook Ave.

Town: Stratford, CT

Date of Completion: 2/6/86

DEP/WPC ID #:

Monitoring Point Location (relative to site features):
along northern property boundary

Drilling Contractor:
Associated Borings Co.

Supervising Geologist:
unknown

Well Construction Method: 4 1/2 inch hollow stem augers.

Location and assumed elevation of benchmark:

WELL INFORMATION

Elevations relative to NGVD of 1929

Ground survey elevation: 20.5

Well depth below ground: 26.5'

Top of casing elevation: 22.62

Refusal: ___Yes _X_No

Length of screen: 10 feet

Screened interval: 16.5'-26.5'

Length of riser pipe: 18 feet

Screen type: 2" sch. 40 PVC

Screen slot size: 0.01 inches

Screen packing: Silica sand
grain size: 1 mm
thickness:

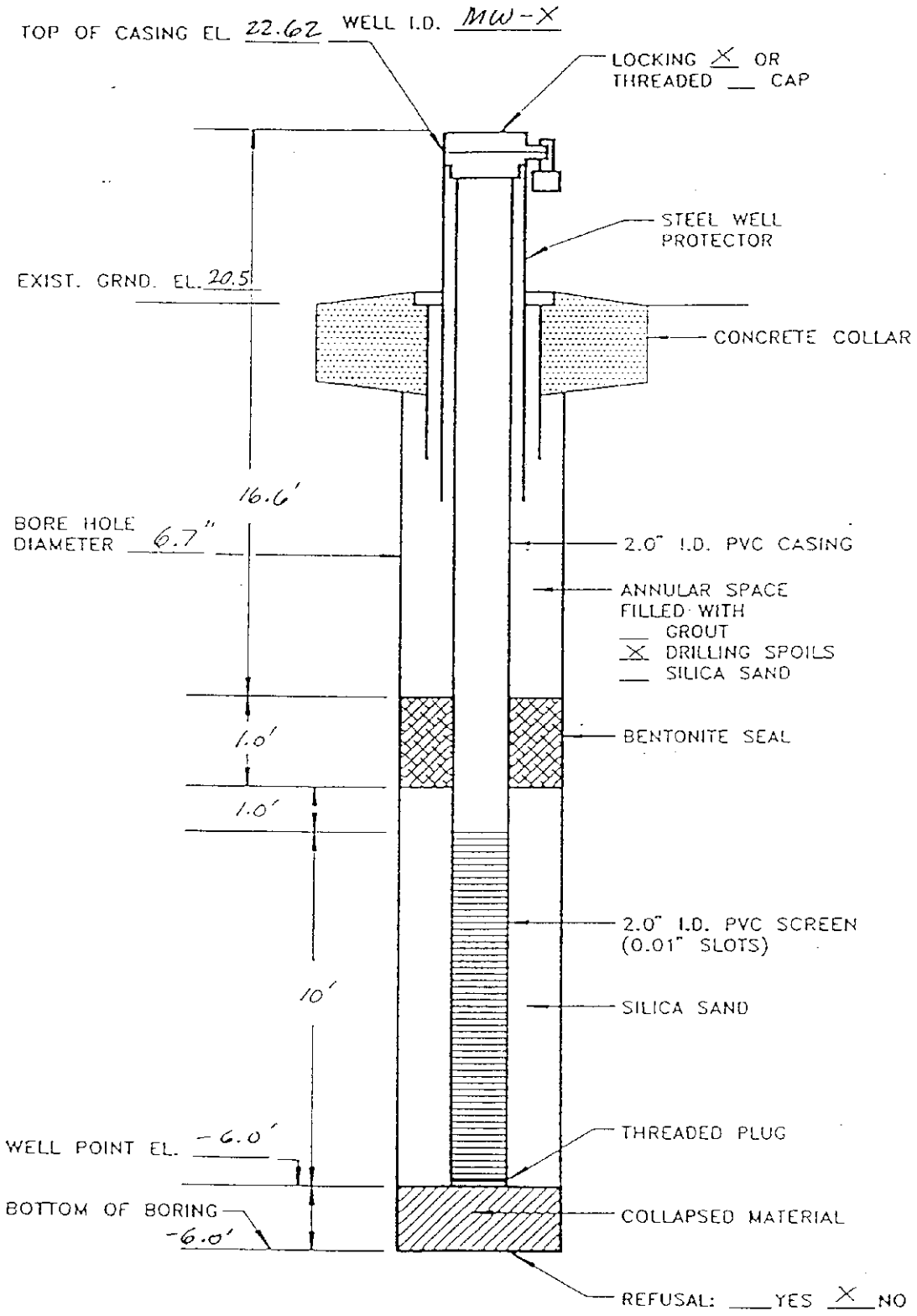
Impermeable backfill: bentonite

Sealed intervals: 14.5'-15.5'

Method of development: bailing Locking X or threaded _ cap

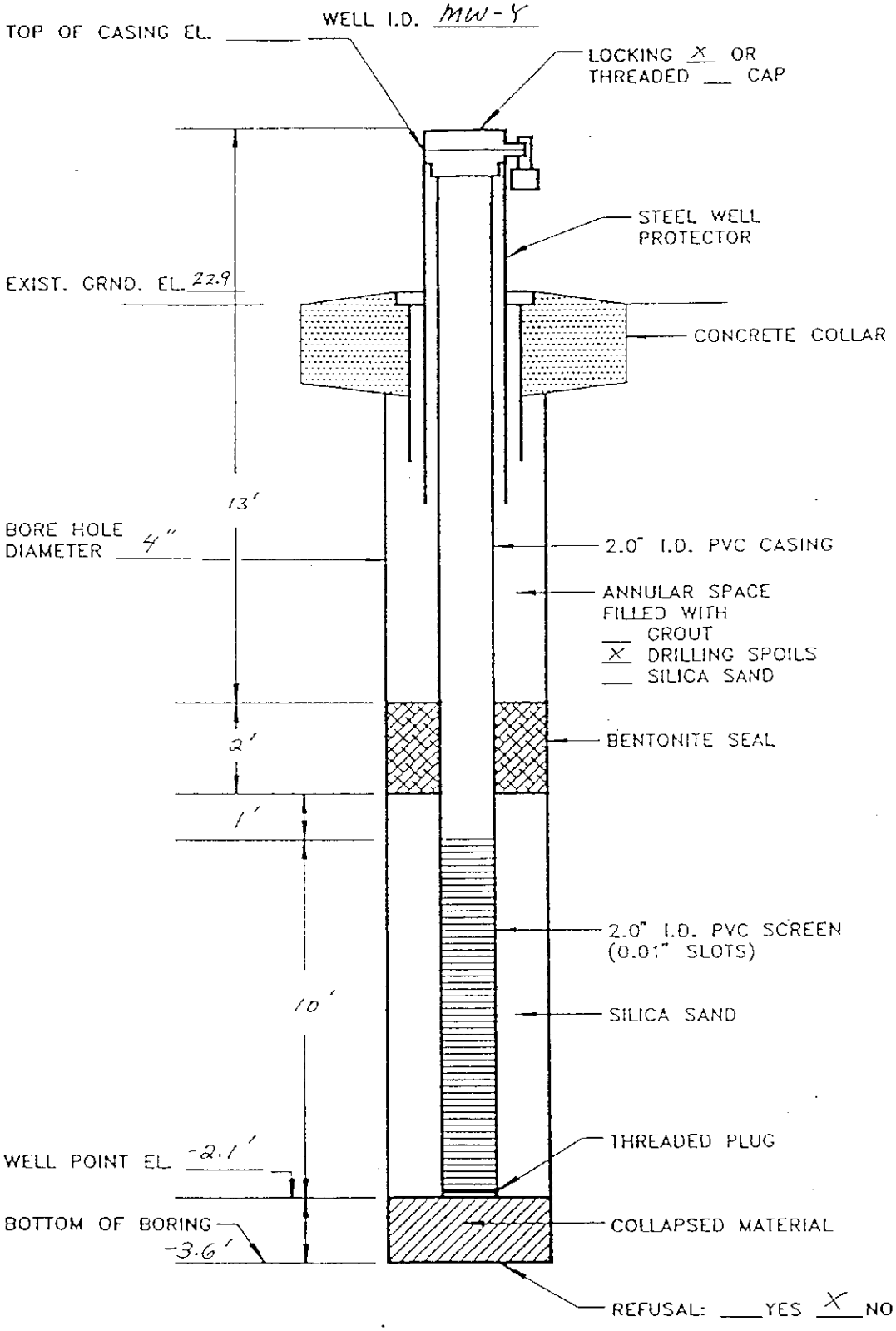
HRP
ASSOCIATES, INC.

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



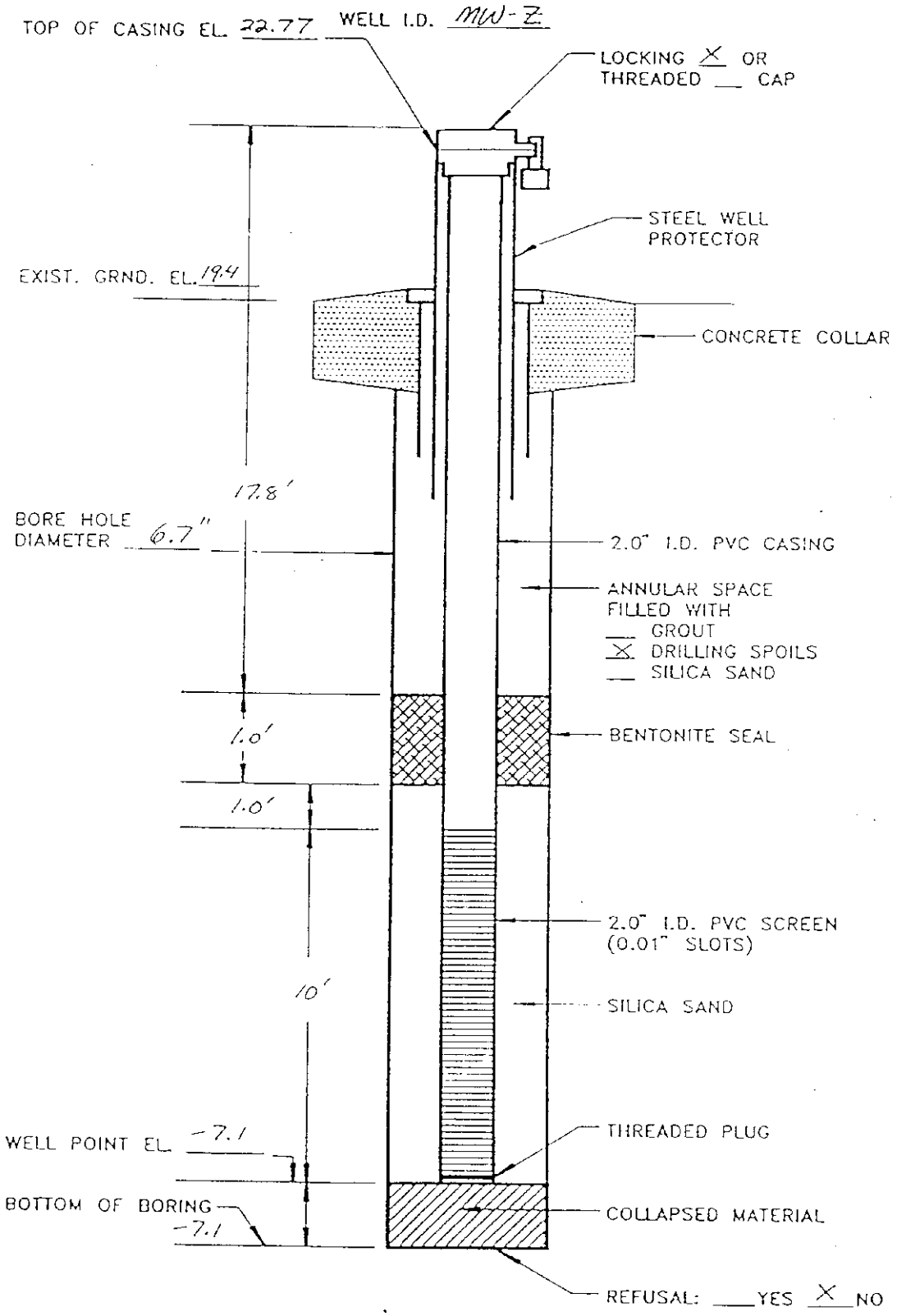
HRP
ASSOCIATES, INC.

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



HRP
ASSOCIATES, INC.

MONITOR WELL INSTALLATION DETAIL
FOR WELL IN UNCONSOLIDATED DEPOSIT



HRP
ASSOCIATES, INC.

WESTON/ARCS personnel installed one temporary groundwater well (piezometer) near the northeast corner of the property (WA120A-E512,S41) using the Geoprobe. The piezometer consisted of a screened PVC pipe system installed to an approximate depth of 32.0 ft. Depth to groundwater was measured to be approximately 20.3 ft below the ground surface in the well. General groundwater characteristics were examined prior to WESTON/ARCS conducting groundwater sampling. Groundwater parameters from Lot WA120 on October 27, 1994 (after purging) were as follows: temperature 14°C; specific conductivity 175 μmhos/cm; salinity 0.0 part per thousand; and pH 1.6.

AKRF, INC
Environmental Consultants
149 Water Street
Norwalk, Connecticut 06854
Phone (203) 852-9322 Fax (203) 838-9357

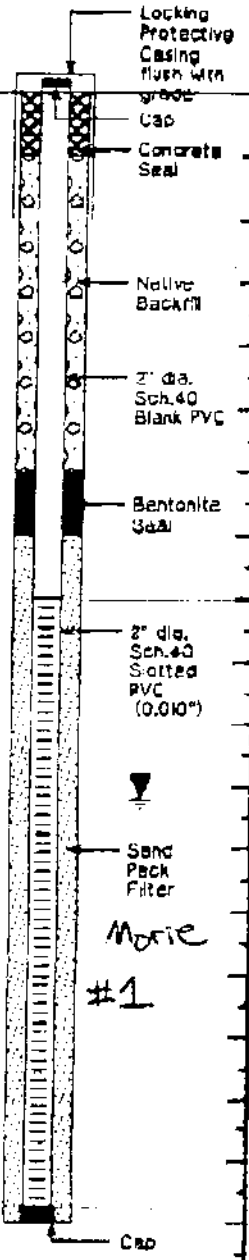
Log of Well MW-1
The Dock
Stratford, CT

Sheet 1 of 1
Job Number: 5009
GS Elevation:

Driller: Envirotech Drilling, Inc.	Drilling	Date	Time
Drill Method: 4-1/4" Hollow Stem Auger	Started	2/26/98	0735
Sample Method: Split Spoon	Finished	2/26/98	0830
Borehole Diameter: 8 in. / Water Level: 11.1 below PVC	Logged By: S. Nowalk	Checked By: CJK	

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description
S-1	20"	11/24"	0*	1–3		Loose, brown, SAND.
S-2	21"	3 0 12 40		5–8		Medium dense, brown SAND, some Silt.
S-3	14"	10 26 46 27		10–13		Very dense, gray-brown SAND, some fine Gravel.
S-4	10"	16 23 24 29		15–18		Very dense, gray-black fine GRAVEL, some Sand.
				19–20		Bottom of boring at 18 feet below grade. Equipment failure.

Well Completion



Monitoring Well #1

AKRF, INC
Environmental Consultants
149 Water Street
Norwalk, Connecticut 06854
Phone (203) 852-9322 Fax (203) 838-9367

Log of Well MW-2
The Dock
Stratford, CT

Sheet 1 of 1
Job Number: 5009
GS Elevation:

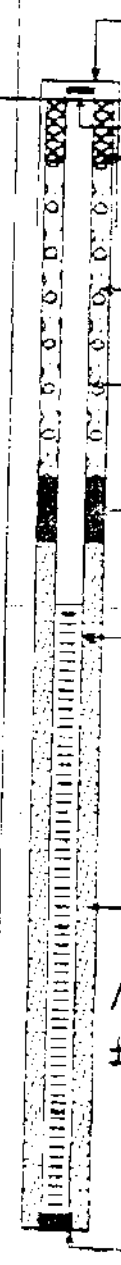
Driller: Envirotech Drilling, Inc.
Drill Method: 4-1/4" Hollow Stem Augar
Sample Method: Split Spoon
Borehole Diameter: 8 in. Water Level: 11.85 Below PVC

Drilling	Date	Time
Started	2/26/98	0900
Finished	2/26/98	0955

Logged By: S. Nowak
Checked By: DJK

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description
S-1	12"	7 10 13 19	0*	1 2 3 4		Medium dense, brown, fine SAND, some fine Gravel
S-2	18"	28 22 23 30		5 6 7 8		Very dense, brown, fine SAND, some fine Gravel
S-3	12"	8 0 11 12		9 10 11 12 13		Medium dense, brown, fine to medium SAND.
S-4	18"	10 10 42 48		14 15 16 17 18		Very dense, brown, fine to medium SAND, some fine Gravel.
				19 20		Bottom of boring at 18 feet below grade *Equipment failure.

Well Completion



Monie #1

AKRF, INC
Environmental Consultants
148 Water Street
Norwalk, Connecticut 06854
Phone (203) 852-8322 Fax (203) 838-9357

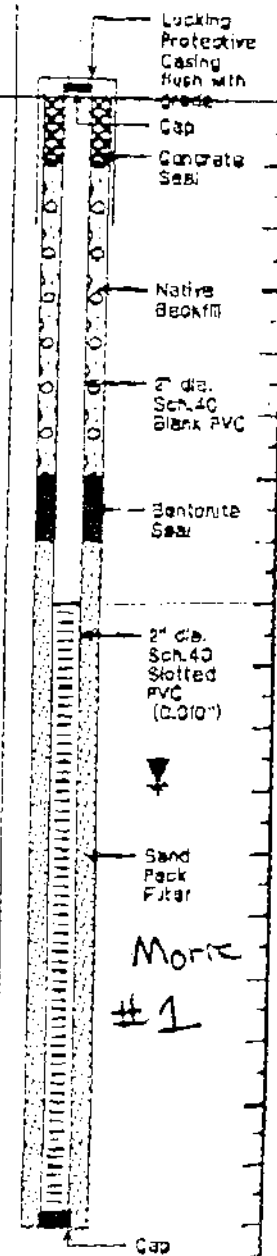
Log of Well MW-3
The Dock
Stratford, CT

Sheet 1 of 1
Job Number: 5009
GS Elevation:

Driller: Envirotech Drilling, Inc.	Drilling	Date	Time
Drill Method: 4-1/4" Hollow Stem Auger	Started	2/26/98	1015
Sample Method: Split Spoon	Finished	2/26/98	1110
Borehole Diameter: 8 in. / Water Level: 10.8 below PVC	Logged By: S. Nowak		Checked By: CJK

Sample No.	Recovery (in.)	Blow Counts	PID	Depth (feet)	Graphic Log	Materials Description
S-1	12"	7 10 13 18	0#	1		Medium dense, brown, fine SAND, some fine Gravel.
				2 3 4 5		
S-2	18"	48 82 23 30		6		Very dense, gray-brown, fine GRAVEL, some Sand.
				7 8 9 10		
S-3	12"	9 8 11 12		11		Medium dense, brown, fine SAND, some fine Gravel.
				12 13 14 15		
S-4	18"	10 10 43 48		16		Very dense, brown, fine SAND, some fine Gravel.
				17 18 19 20		Bottom of boring at 18 feet below grade. Equipment failure.

Well Completion



Monit #1

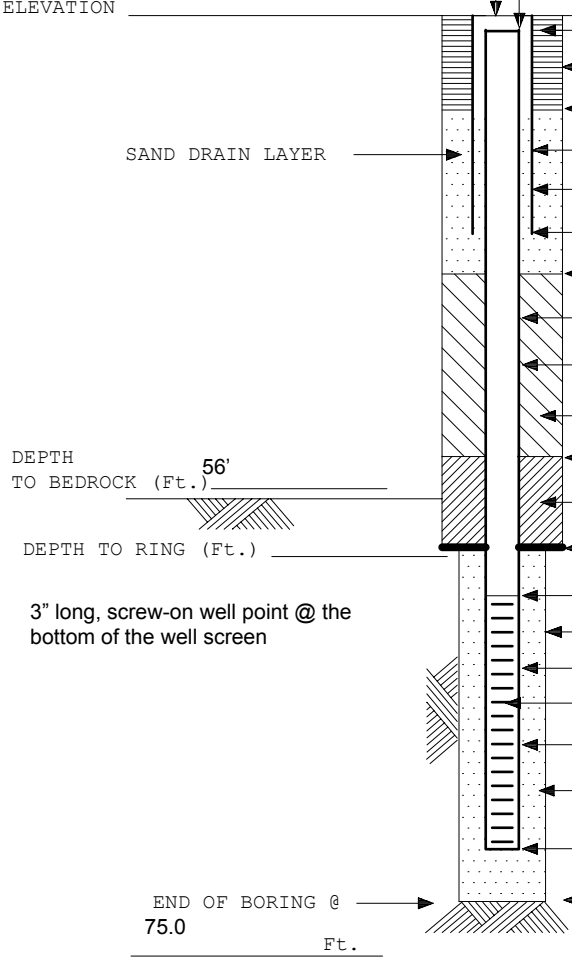
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: OU2-Dock Property Wells
PROJECT NO: 7607-0330
PROJECT LOCATION: Stratford, CT
WELL NO: MW-1B
CLIENT: US EPA – New England
BORING NO: MW-1B
CONTRACTOR: EnviroTech/AKRF
DRILLER: Dan/Stephen Grens
BORING LOCATION: East of E. Main St. North of Sidney Street
LOGGED BY: Joe Mello
DATE: 11/13/97
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 16.62'

ELEVATION TOP OF RISER PIPE 16.17'

GROUND ELEVATION 16.63'



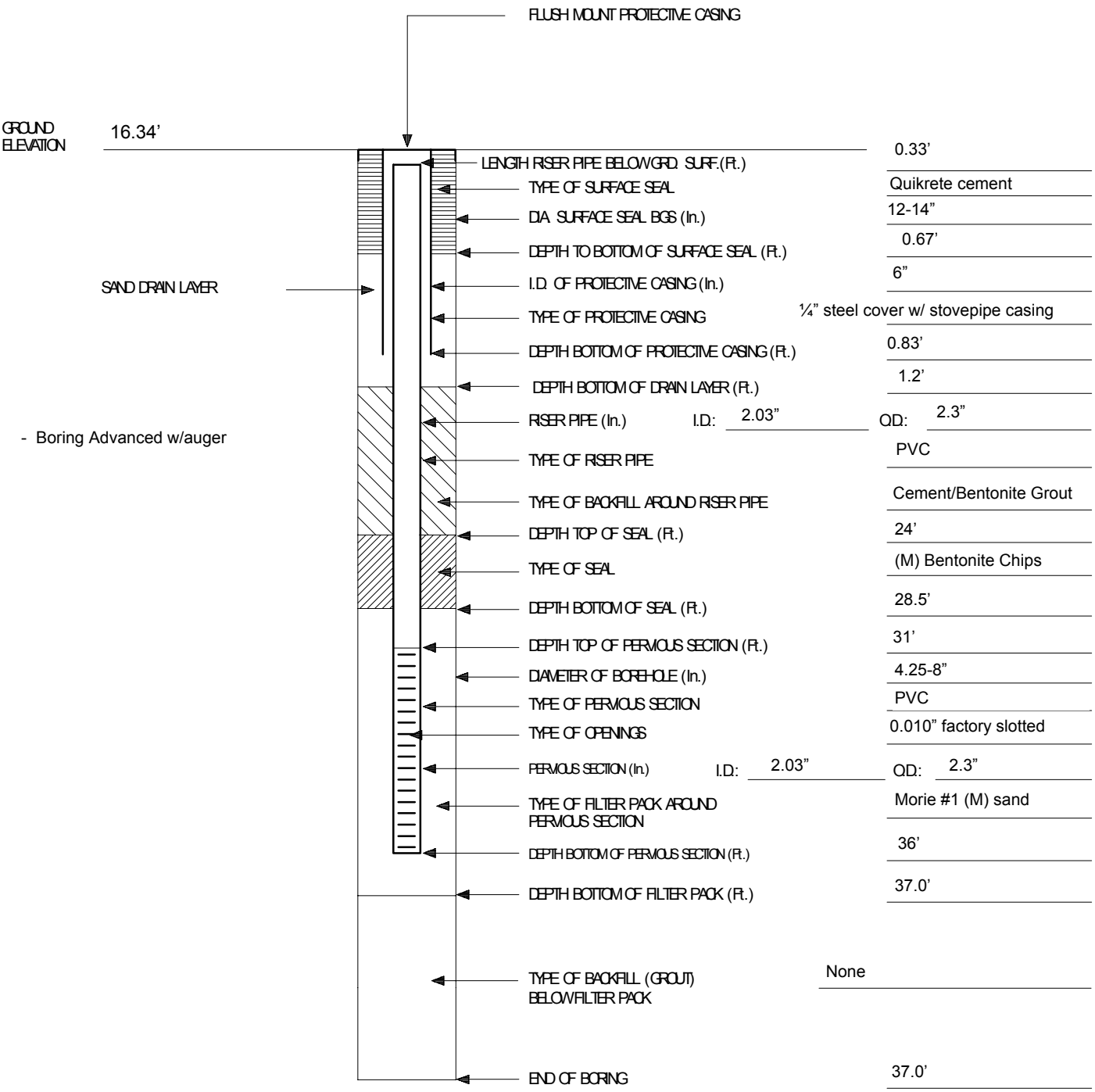
FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.46'
TYPE OF SURFACE SEAL	Quikrete Cement
DIA. SURFACE SEAL BGS (In.)	12-14"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	2/3 rds (0.67')
I.D. OF PROTECTIVE CASING (In.)	6"
TYPE OF PROTECTIVE CASING	¼" steel cover w/stovepipe casing
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	5/6 ths (0.83)'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	1.2'
RISER PIPE (In.) I.D.: 2.03"	O.D.: 2.3"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Cement/Bentonite Grout
DEPTH TOP OF SEAL (Ft.)	55.5'
TYPE OF SEAL	(M) Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	58'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	59.5'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2.03"	O.D.: 2.3"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Morie #1 (M) Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	74.5'
DEPTH BOTTOM OF FILTER PACK (Ft.)	75.0'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

FLUSH MOUNT MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS INC.**

PROJECT NAME:	Raymark OU2/Phase I Groundwater – Dock Property Wells	PROJECT NO:	7607-0320
PROJECT LOCATION:	Stratford, CT	WELL NO:	MW-1M
CLIENT:	US EPA, RAC I	BORING NO:	MW-1B
CONTRACTOR:	EnviroTech/AKRF	DRILLER:	Dan/Stephen Grens
LOGGED BY:	Joe Mello	DATE:	11/13/97
CHECKED BY:		DATE:	
BORING LOCATION:	East of E. Main St. North of Sidney Street		
PAGE:	1 OF 1		



GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation Indicates that Surveyed Ground Elevation is NOT Available.

BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: OU2-Dock Property Wells
PROJECT NO: 7607-0330
PROJECT LOCATION: Stratford, CT
WELL NO: MW-4B
CLIENT: US EPA – RAC, Region I
BORING NO: MW-4B
CONTRACTOR: EnviroTech/AKRF
DRILLER: Dan/Stephen Grens
BORING LOCATION: North of Rte. 95 East of Stop & Shop – "Dock"
LOGGED BY: Joe Mello
DATE: 11/18/97
CHECKED BY:
DATE:

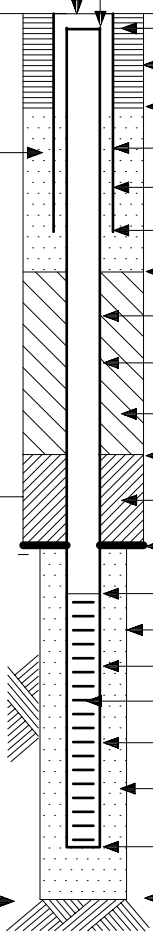
PAGE: 1 OF 1

ELEVATION TOP OF PROTECTIVE CASING 14.63'

ELEVATION TOP OF RISER PIPE 14.31'

GROUND ELEVATION 14.62'

DEPTH TO BEDROCK (Ft.) 30.5'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.31'
TYPE OF SURFACE SEAL	Quikrete Cement
DIA. SURFACE SEAL BGS (In.)	12-14
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.67
I.D. OF PROTECTIVE CASING (In.)	6
TYPE OF PROTECTIVE CASING	¼" steel cover w/ stovepipe casing
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	0.83'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	1.2'
RISER PIPE (In.) I.D.: 2.03"	O.D.: 2.28"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Cement/Bentonite Chips
DEPTH TOP OF SEAL (Ft.)	29
TYPE OF SEAL	(M) Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	33.5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	36.2'
DIAMETER OF BOREHOLE (In.)	4"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.01" factory slotted
PERVIOUS SECTION (In.) I.D.: 2.03"	O.D.: 2.28"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Morie #1 (M) Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	51.2'
DEPTH BOTTOM OF FILTER PACK (Ft.)	51.5'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

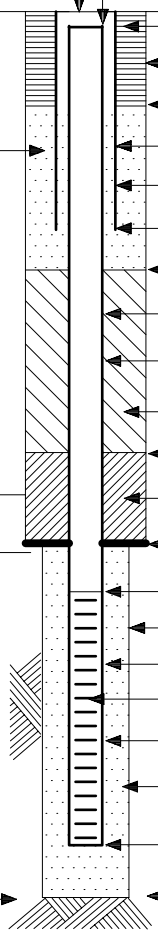
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: OU2-Dock Property Wells
PROJECT NO: 7607-0330
PROJECT LOCATION: Stratford, CT
WELL NO: MW-4D
CLIENT: US EPA, Region I, RAC
BORING NO: MW-4D
CONTRACTOR: EnviroTech/AKRF
DRILLER: Dan/Stephen Grens
BORING LOCATION: North of Rte. 95. East of Stop & Shop – 'Dock' East of MW-4B
LOGGED BY: Joe Mello
DATE: 11-17-97
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 14.62'

ELEVATION TOP OF RISER PIPE 14.38'

GROUND ELEVATION 14.62'



FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.24'
TYPE OF SURFACE SEAL	Quikrete Cement
DIA. SURFACE SEAL BGS (In.)	12-14"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.67'
I.D. OF PROTECTIVE CASING (In.)	6"
TYPE OF PROTECTIVE CASING	¼" steel cover w/stovepipe casing
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	0.83'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2'
RISER PIPE (In.) I.D.: 2.03"	O.D.: 2.28"
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	None
DEPTH TOP OF SEAL (Ft.)	2'
TYPE OF SEAL	(M) Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	17.6'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	19.3'
DIAMETER OF BOREHOLE (In.)	4.25-8"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2.03"	O.D.: 2.28"
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Morie #1 (M) Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	24.3'
DEPTH BOTTOM OF FILTER PACK (Ft.)	24.6'

GENERAL NOTE:

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

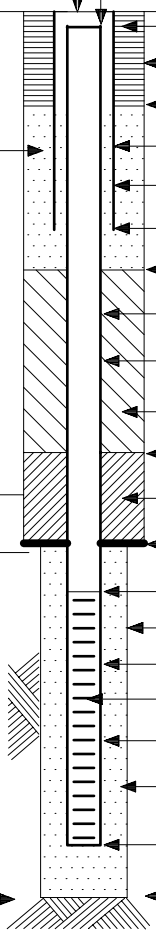
BEDROCK MONITORING WELL CONSTRUCTION LOG **TETRA TECH NUS, INC.**

PROJECT NAME: OU2-Dock Property Wells
PROJECT NO: 7607-0330
PROJECT LOCATION: Stratford, CT
WELL NO: MW-4S
CLIENT: US EPA, Region I, RAC
BORING NO: MW-4S
CONTRACTOR: EnviroTech/AKRF
DRILLER: Dan/Stephen Grens
BORING LOCATION: North of Rte. 95. East of Stop & Shop – 'Dock' East of MW-4B
LOGGED BY: Joe Mello
DATE: 11-18-97
CHECKED BY:
DATE:

ELEVATION TOP OF PROTECTIVE CASING 14.71'

ELEVATION TOP OF RISER PIPE 14.34'

GROUND ELEVATION 14.72'



SAND DRAIN LAYER

DEPTH TO BEDROCK (Ft.)

DEPTH TO RING (Ft.)

END OF BORING @ 18 Ft.

FLUSH MOUNT PROTECTIVE CASING GROUND SURFACE (Ft.)	
LENGTH OF RISER PIPE BELOW GROUND SURFACE (Ft.)	0.38'
TYPE OF SURFACE SEAL	Quikrete Cement
DIA. SURFACE SEAL BGS (In.)	12-14"
DEPTH TO BOTTOM OF SURFACE SEAL (Ft.)	0.67'
I.D. OF PROTECTIVE CASING (In.)	6"
TYPE OF PROTECTIVE CASING	¼" steel cover w/stovepipe casing
DEPTH BOTTOM OF PROTECTIVE CASING (Ft.)	0.83'
DEPTH BOTTOM OF DRAIN LAYER (Ft.)	2.5'
RISER PIPE (In.) I.D.: 2.03" O.D.: 2.28"	
TYPE OF RISER PIPE	PVC
TYPE OF BACKFILL AROUND RISER PIPE	Morie #1 Sand
DEPTH TOP OF SEAL (Ft.)	2.5'
TYPE OF SEAL	(M) Bentonite Chips
DEPTH BOTTOM OF SEAL (Ft.)	5'
DEPTH TOP OF PERVIOUS SECTION (Ft.)	7'
DIAMETER OF BOREHOLE (In.)	4.25-8"
TYPE OF PERVIOUS SECTION	PVC
TYPE OF OPENINGS	0.010" factory slotted
PERVIOUS SECTION (In.) I.D.: 2.03" O.D.: 2.28"	
TYPE OF FILTER PACK AROUND PERVIOUS SECTION	Morie #1 (M) Sand
DEPTH BOTTOM OF PERVIOUS SECTION (Ft.)	17'
DEPTH BOTTOM OF FILTER PACK (Ft.)	18'

G E N E R A L N O T E :

1. Entry of 0.00 for Ground Elevation, Elev. Top of Riser Pipe & Elev. Top of Protective Casing Indicates that Surveyed Ground Elevation Not Available.

PHONE (203) 375-4437

CONTRACT PLATING COMPANY
INCORPORATED
ESTABLISHED 1914
METAL FINISHERS

540 LONGBROOK AVENUE
STRATFORD, CT 06497

VERONICA ROTZAL PETERS

POST-CLOSURE PART B PERMIT APPLICATION FOR CONTRACT PLATING COMPANY, INC. 540 LONGBROOK AVENUE STRATFORD, CONNECTICUT

EPA I.D. CTD001180462

HRP #CON6010.RC

DECEMBER, 1991

Prepared by:

Richard D. McFee
Senior Project Manager

Mark C. Possidento, P.E.
Principal, Engineering Services

Submitted to:

Mr. Ravi Mehta
Contract Plating Company, Inc.
540 Longbrook Avenue
Stratford, Connecticut

Submitted by:

HRP Associates, Inc.
Engineering and Geology
167 New Britain Avenue
Plainville, Connecticut

e/rdm/con6010.rc/ad

HRP
ASSOCIATES, INC.

East Coast Drilling & Boring, Inc.

P. O. BOX 961 - WALLINGFORD, CONN. 06492

Bit # _____ Ftg. _____

Bit # _____ Ftg. _____

SHEET 1 OF 1
DATE 6/15/83
HOLE NO. MW-1
LINE & STA. _____
OFFSET _____

TO HRP Associates
PROJECT NAME Contracting Plating
REPORT SENT TO Client
SAMPLES SENT TO Taken at Site

ADDRESS New Britain, Connecticut
LOCATION Stratford, Connecticut
PROJ. NO. _____
OUR JOB NO. 83-121

GROUND WATER OBSERVATIONS

At None after 0 Hours

At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type	HSA	S-S	
Size I.D.	3½"	1 3/8"	
Hammer Wt.		140lb.	BIT
Hammer Fall		30"	

SURFACE ELEV. _____
DATE STARTED 6/14/83
DATE COMPL. 6/14/83
BORING FOREMAN D. Quagliaroli
INSPECTOR P. Misluk
SOILS ENGR. _____

LOCATION OF BORING: _____

DEPTH	Casing Blows per foot	Sample Depths From – To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE No.	Pen	Rec.
		0.0'-1.5'	D	7	6	9	Moist Medium Dense		Brown fine-coarse Sand, fine-medium Gravel, Cobbles (Fill).	1	1.5'	1.2
		5.0'-6.5'	D	40	40	43	Moist Very Dense		Brown fine-coarse Sand and fine-coarse Gravel, Cobbles.	2	1.5'	1.3
								8.0'				
								9.0'	Weathered Rock.			
									Refusal at 9.0'			

GROUND SURFACE TO 9.0' USED HSA "CASING: THEN Augers Refused at 9.0'

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY:
Earth Boring 9.0'
Rock Coring _____
Samples 2

HOLE NO. MW-1

East Coast Drilling & Boring, Inc.

P. O. BOX 961 - WALLINGFORD, CONN. 06492

Bit # _____ Ftg. _____

Bit # _____ Ftg. _____

TO Hrp Associates
PROJECT NAME Contracting Plating
REPORT SENT TO Client
SAMPLES SENT TO Taken at Site

ADDRESS New Britain, Connecticut
LOCATION Stratford, Connecticut
PROJ. NO.
OUR JOB NO. 83-121

SHEET 1 OF 1
DATE 6/15/83
HOLE NO. MW1B
LINE & STA.
OFFSET

GROUND WATER OBSERVATIONS

At 8.9' after 0 Hours
Reading Taken in Monitor Well
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type	HSA	S-S	
Size I.D.	3½"	1 3/8"	
Hammer Wt.		140lb.	BIT
Hammer Fall		30"	

SURFACE ELEV.
DATE STARTED 6/14/83
DATE COMPL. 6/14/83
BORING FOREMAN D. Quagliaroli
INSPECTOR P. Misluk
SOILS ENGR.

LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE No.	Pen	Rec.
									No Top Sample Required.			
		5.0'-6.5'	D	7	6	9	Moist Medium Dense		Brown medium-coarse Sand, trace fine Gravel.	1	1.5'	1.1'
		10.0'-11.5'	D	6	8	14	Wet Medium Dense		" "	2	1.5'	1.2'
		15.0'-16.5'	D	60	26	16	Wet Dense		Brown fine-coarse Sand, some fine-medium Gravel.	3	1.5'	1.0'
		20.0'-21.5'	D	25	30	53	Wet Very Dense	21.5'	Gray Brown medium-coarse Sand and fine-medium Gravel, little weathered Rock.	4	1.5'	1.2'
									Bottom of Boring 21.5'			
									Installed 2" PVC Monitor Well @ 21.0'			
									10.0' Screen 12.0' Riser Pipe			
									1 Protective Steel Sleeve			

GROUND SURFACE TO 20.0' USED HSA "CASING: THEN Sampled to 21.5'

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med. Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY:
Earth Boring 21.5'
Rock Coring
Samples 4

HOLE NO. MW1B

East Coast Drilling & Boring, Inc.

P. O. BOX 961 - WALLINGFORD, CONN. 06492

Bit # _____ Ftg. _____

Bit # _____ Ftg. _____

SHEET 1 OF 1
DATE 6/13/83
HOLE NO. MW2
LINE & STA. _____
OFFSET _____

TO HRP Associates
ADDRESS New Britain, Connecticut
PROJECT NAME Contracting Plating
LOCATION Stratford, Connecticut
REPORT SENT TO Client
PROJ. NO. _____
SAMPLES SENT TO Taken at Site
OUR JOB NO. 83-121

GROUND WATER OBSERVATIONS

At 9.5' after 0 Hours

At 8.5' after 16 Hours *

*Reading Taken in Monitor Well

	CASING	SAMPLER	CORE BAR.
Type	HSA	S-S	
Size I.D.	3½"	1 3/8"	
Hammer Wt.		140lb.	BIT
Hammer Fall		30"	

SURFACE ELEV. _____
DATE STARTED 6/13/83
DATE COMPL. 6/13/83
BORING FOREMAN D. Quagliaroli
INSPECTOR P. Misluk
SOILS ENGR. _____

LOCATION OF BORING: _____

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE No.	Pen	Rec.
		0.0'-1.5'	D	7	3	7	Moist Loose	.2'	Topsoil.	1	1.5	1.5
									Red Brown medium-coarse Sand, trace fine Gravel.			
		5.0'-6.5'	D	15	10	10	Moist Medium Dense		Brown fine-medium Sand, trace fine Gravel.	2	1.5	1.3
		10.0'-11.5'	D	3	6	4	Wet Loose		Brown medium-coarse Sand, trace fine Gravel.	3	1.5	1.2
		15.0'-16.5'	D	9	7	6	Wet Medium Dense		Brown fine-coarse Sand, little fine-medium Gravel, trace weathered Rock.	4	1.5	1.5
		20.0'-21.5'	D	11	26	14	Wet Dense		Brown fine-coarse Sand, trace fine Gravel.	5	1.5	1.0
								21.5'	Augered Overburden. No Soil Samples Required.			
								36.0'	Refusal at 36.0' Installed 2" PVC Monitor Well @ 19.0' 10.0' Screen - 10.0' Riser Pipe 1 Protective Steel Sleeve.			

GROUND SURFACE TO 36.0' USED HSA "CASING: THEN Installed Monitor Well.

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency	
0-10	Loose	0-4	Soft
10-30	Med. Dense	4-8	M/Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff
		30 +	Hard

SUMMARY:
Earth Boring 36.0
Rock Coring _____
Samples 5

HOLE NO. MW2

Soil Sampling Log
KENNEDY & SONS TEST BORING, INC.

Sub–Surface Exploration
P.O. Box 735
Naugatuck, Connecticut 06770
Bus. (203) 723-0686

SHEET 1 OF 1
PROJ. NO. CON 6009 EG

DATE START 9/03/91
DATE FINISHED 9/03/91

WEIGHT OF HAMMER 140
DRAW FALL 30"

LOCATION Stratford, CT
Contract Plating

OFFSET

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH
9/3/91	0 hrs.	13.[illegible]

SAMPLER O.D. 2" I.D. 1 5/8"

TYPE OF RIG CME 55

ESPECIALLY COMPILED FOR
NRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062

GROUND ELEVATION
HOLE NO. MW - 2A

	CASING	SAMPLER	CORE	BARRE
TYPE	HSA	SS		
SIZE I.D.	4 1/4"	1 5/8"		

SAMPLE NO. DEPTHS ELEV.FT.	BLOWS PER 6 IN. ON SAMPLER FROM – TO 0–6	6–12	12–18	18–24	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE NO.	PEN	REC.
0'-2'							Light brown medium and coarse sand, some fine gravel, some coarse gravel, trace cobbles, no odor.	1		
5'-7'	8	9	8	4	medium comp. dry		Light brown medium sand, little fine sand, little medium gravel, no odor.	2	2.0	1.0
10'-12'	5	6	6	6	medium comp. dry	10.9'	Light brown coarse and very coarse sand.	3	2.0	1.4
							Light brown medium and fine sand, laminated.			
						11.7'	Light brown silt aned clay.			
						11.8'	Light brown medium and fine sand, no odor.			
15'-17'	3	5	7	8	medium comp. wet		Light brown very coarse sand, no odor.	4	2.0	1.2
							Set well at 20' 10' screen 10' riser 2 bags sand, 8' to 20' 25 lbs. bentonite, 7'-8' 1 stand pipe w/lock 1 screw cap			

RECEIVED
SEP 19 1991
NRP ASSOCIATES, INC.

Proportions used: trace = 0.10%, little = 10.20%, some = 20.35%, and 35.50%

DRILLER: Brian Kennedy
HELPER: Mike Kennedy
SOILS ENGINEER:
DRILLING INSPECTOR: Dennis

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
0 - 10 LOOSE
10 - 30 MED. COMP.
30 - 50 DENSE
50 + VERY DENSE

FILE: K021245

TOTAL FOOTAGE:
Earth Boring Ft.
Rock Coring Ft.
Hole No. MW - 2A

East Coast Drilling & Boring, Inc.

P. O. BOX 961 - WALLINGFORD, CONN. 06492

Bit # _____ Ftg. _____

Bit # _____ Ftg. _____

SHEET 1 OF 1
DATE 6/15/83
HOLE NO. MW3
LINE & STA. _____
OFFSET _____

TO HRP Associates
ADDRESS New Britain, Connecticut
PROJECT NAME Contracting Plating
LOCATION Stratford, Connecticut
REPORT SENT TO Client
PROJ. NO. _____
SAMPLES SENT TO Taken at Site
OUR JOB NO. 83-121

GROUND WATER OBSERVATIONS

At 9.7' after 0 Hours
Reading Taken in Monitor Well
At _____ after _____ Hours

	CASING	SAMPLER	CORE BAR.
Type	HSA	S-S	
Size I.D.	3½"	1 3/8"	
Hammer Wt.		140lb.	BIT
Hammer Fall		30"	

SURFACE ELEV. _____
DATE STARTED 6/13/83
DATE COMPL. 6/14/83
BORING FOREMAN D. Quagliaroli
INSPECTOR P. Misluk
SOILS ENGR. _____

LOCATION OF BORING: _____

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	To 12-18	Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE No.	Pen	Rec.
		0.0'-1.5'	D	6	5	4	Moist Loose	.3'	Topsoil.	1	1.5	1.5
									Brown fine-coarse Sand, trace fine Gravel, Cobbles (Fill).			
		5.0'-6.5'	D	5	12	17	Moist Medium Dense		Mica Schist, Green to medium Gray, trace Brown Sand.	2	1.5	1.3
		10.0'-11.5'	D	3	1	1	Wet Loose		Brown Organic Silt, trace Wood.	3	1.5	1.0
								12.0'				
		15.0'-16.5'	D	9	8	15	Wet Medium Dense		Brown fine-coarse Sand, little fine-medium Gravel.	4	1.5	1.4
		20.0'-21.5'	D	22	18	13	Wet Dense		Gray Brown medium-coarse Sand and fine-medium Gravel.	5	1.5	1.0
		25.0'-26.5'	D	15	46	36	Wet Very Dense		Gray Brown medium-coarse Sand, some fine-medium Gravel trace weathered Rock, Cobbles	6	1.5	1.2
								26.5'				
									Bottom of Boring 26.5'			
									Installed 2" PVC Monitor Well @ 24.0'			
									10.0' Screen 15.0' Riser Pipe 1 protective steel sleeve			

GROUND SURFACE TO 25.0' USED HSA "CASING: THEN Sampled to 26.5'

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density	Cohesive Consistency
0-10 Loose	0-4 Soft
10-30 Med. Dense	4-8 M/Stiff
30-50 Dense	8-15 Stiff
50 + Very Dense	15-30 V-Stiff
	30 + Hard

SUMMARY
Earth Boring 26.5'
Rock Coring _____
Samples 6

HOLE NO MW3

Soil Sampling Log

KENNEDY & SONS TEST BORING, INC.

Sub–Surface Exploration
P.O. Box 735
Naugatuck, Connecticut 06770
Bus. (203) 723-0686

DATE START 9/03/91
DATE FINISHED 9/03/91

WEIGHT OF HAMMER 140
HAMMER FALL 30"

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH
9/3/91	12:05	13.3'

SAMPLER O.D. 2" I.D. 1 5/8"

TYPE OF RIG CME 55

ESPECIALLY COMPILED FOR
HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062

SHEET 1 OF 1
PROJ. NO. CON 6009 HG

LOCATION Stratford, CT
Contract Plating

OFFSET

GROUND ELEVATION
HOLE NO. MW - 3A

	CASING	SAMPLER	CORE	BARRE
TYPE	HSA	SS		
SIZE I.D.	4 1/4"	1 5/8"		

SAMPLE NO. DEPTHS ELEV.FT.	BLOWS PER 6 IN. ON SAMPLER FROM – TO 0–6	6–12	12–18	18–24	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE NO.	PEN	REC.
5'-7'	20	12	15	18	dense dry		Brown micaceous fine and medium sand, some medium gravel and rock chips, no odor.	1	2.0	[illegible]
						7.0'	Medium gravel.			
						8.0'				
10'-12'	2	2	1	1	loose moist		Dark brown silt and fine sand, some clay, no odor.	2	2.0	1.4
1[illegible]-1[illegible]	8	10	8	9	medium comp. wet		Light brown very coarse sand and fine gravel, no odor.	3	2.0	1.1
							Set well at 22' 10' screen 20' riser 2 bags sand, 10'-22' 25 lbs. bentonite, 9'-10' stand pipe w/lock 1 screw cap Total 10 bags portland cement 1 new impregnated diamond bit			

Proportions used: trace = 0.10%, little = 10.20%, some = 20.35%, and 35.50%

DRILLER: Brian Kennedy
HELPER: Mike Kennedy
SOILS ENGINEER:
DRILLING INSPECTOR: Dennis

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
0 - 10 LOOSE
10 - 30 MED. COMP.
30 - 50 DENSE
50 + VERY DENSE

TOTAL FOOTAGE:
Earth Boring Ft.
Rock Coring Ft.
Hole No. MW - 3A

FILE: K021244

East Coast Drilling, Inc.

P. O. BOX 961 - WALLINGFORD, CONN. 06492

Bit # ____ Fig. ____

Bit # ____ Fig. ____

TO HRP Associates
PROJECT NAME Contract Plating
REPORT SENT TO Client
SAMPLES SENT TO Taken at Site

ADDRESS New Britain, Connecticut
LOCATION Stratford, Connecticut
PROJ. NO. 82-40-11
OUR JOB NO. 84-226

SHEET 1 OF 1
DATE 7/30/84
HOLE NO. MN-4
LINE & STA.
OFFSET

GROUND WATER OBSERVATIONS

At 15.05 after 0 Hours In Monitor Well
At 13.93 after Hours

	CASING	SAMPLER	CORE BAR.
Type	HSA	S-S	
Size I.D.	3½"	1 3/8"	
Hammer Wt.		140lb.	BIT
Hammer Fall		30"	

SURFACE ELEV.
DATE STARTED 7/28/84
DATE COMPL. 7/28/84
BORING FOREMAN Quagliaroli
INSPECTOR B. Leach
SOILS ENGR.

LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler From 0-6	To 6-12	12-18	Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE No.	Pen	Re
		0.0'-2.0'	D	1	1	1	Moist		0.0'-1.0' Dark Brown fine	1	2.0'	1.5
						3	Loose		Sand, Silt, trace medium			
									Sand, Topsoil, Grass, Roots.			
									Brown fine-medium Sand,			
							Dry	5.2'	trace Silt, coarse Sand.			
		5.0'-7.0'	D	8	19	18	Dense		Light Brown fine-medium Sand	2	1.0'	1.2
						14			and Gravel, trace Silt (Mica)			
							Moist					
		10.0'-12.0'	D	13	16	23	Very		" "	3	2.0'	1.0
						30	Dense					
								14.0'				
							Wet					
		15.0'-17.0'	D	2	4	7	Medium		Brown fine Sand, trace Silt.	4	2.0'	2.0
						9	Dense		Note: Running Sand 20.0'			
									Sample.			
							Wet	20.2'				
		20.0'-22.0'	D	16	21	27	Very		Brown medium-coarse Sand,	5	2.0'	1.6
						26	Dense		some fine Sand, trace Silt.			
									Note: No running sand at			
							Wet		25.0' sample.			
		24.7'-26.2'	D	37	58	26	Very	25.0'		6	1.5'	1.5
							Dense		Brown fine Sand, trace Silt			
									Top 0.5'			
									Brown m-c Sand and Gravel			
									last 0.1' Broken Rock,			
								26.2'	weathered.			
									Bottom of Boring 26.2'			
									Installed Monitor Well at			
									25.0'			
									15.0' Screen			
									10.0' Riser Pipe			
									1 Protective Steel Sleeve			
									with Locking Cap			
									Bentonite Seal 5'-6' and below concrete Steel Riser			

GROUND SURFACE TO 24.7' USED HSA "CASING: THEN Sampled to 26.2'

Sample Type
D=Dry C=Cored W=Washed
UP=Undisturbed Piston
TP=Test Pit A=Auger V=Vane Test
UT=Undisturbed Thinwall

Proportions Used

trace	0 to 10%
little	10 to 20%
some	20 to 35%
and	35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density		Cohesive Consistency		
0-10	Loose	0-4	Soft	30 + Hard
10-30	Med. Dense	4-8	M/Stiff	
30-50	Dense	8-15	Stiff	
50 +	Very Dense	15-30	V-Stiff	

SUMMARY:
Earth Boring 26.2
Rock Coring
Samples 6

HOLE NO MN-4

ASSOCIATED BORINGS CO., INC.
119 MARGARET CIRCLE
NAUGATUCK, CONN. 06770
PHONE 729-5439

TEST BORING REPORT

PROJ. Contract Plating Stratford, Connecticut

CLIENT H R P ENGINEERING

RECEIVED
AUG 13 1990
H.R.P. ASSOCIATES,

BORING NO. MW-5
LINE & STA.
OFFSET
GR. ELEV.
DATE August 7, 1990

A	STRATUM DESCRIPTION	DENSITY OR CONSIST.	BLOWS PER 6" B
1.5	Brown M-F Sand		
	Processed Stone, Some M-F Sand.		
	"	Loose Wet	2-2 2-2
7.0	Brown M-F Sand, Some M-F Grav.		
	"	Dense Wet	31-50/3"
	"	V.Comp Wet	10-20 34-50
19.0			
	End of Boring-19.0		
	GWO- 10.0		
	Monitor Well Installed: 10.0 Screen 10.0 Riser 1-Flush Mounted Protector		

BORING NO. MW-6
LINE & STA.
OFFSET
GR. ELEV.
DATE August 7, 1990

A	STRATUM DESCRIPTION	DENSITY OR CONSIST.	BLOWS PER 6" B
0.2	Bituminous Concrete		
	Brown M-F Sand, Some M-F Grav.		
	"	Loose Moist	2-4 4-3
	"	Comp Wet	8-16 32-27
	"	Comp Wet	10-15 17-26
19.0			
	End of Boring-19.0		
	GWO- 11.0		
	Monitor Well Installed: 10.0 Screen 10.0 Riser 1-Flush Mouted Protector		

1 COL. A Blows on Casing * DRILL TIME PER FOOT
2 COL. B Blows on 1⅜" Sampler (I.D.)
3 HAMMER = 140#, FALL 30"
4 SAMPLER = O. D. SPLIT SPOON
5 GWO = GROUND WATER OBSERVATIONS
6 W = WEIGHT OF HAMMER

FIELD — % CONTENT
AND — 40 to 50%
SOME — 10 to 40%
TRACE — 0 to 10%

WELL MW-7

supplemental boring log - 8/14/90

depth feet	change	lithology
0-2		dark brown sandy loam no odor dry
	4	medium and coarse gravel
5-7		gray-brown medium and fine gravel no odor dry
10-12		brown sand and silt no odor dry
15-17		light brown coarse sand and fine gravel some medium gravel little medium sand no odor wet
20-22		same no odor wet
25-26.9		light brown fine sand some silt no odor wet
	26.9	medium gravel and coarse sand no odor
30-32		light brown medium and fine gravel some coarse sand trace silt no odor wet
35-37		same no odor
	39.0	refusal on bedrock

well set at 39'
10' screen
35' riser
sand 27.5-39'
bentonite seal 25.5-27.5 wait 1 hr
grout to surface (bentonite + cement)
auger steam cleaned
well finished 8/15/90 - concrete collar 8" below surface, 8" thick

WELL MW-8

supplemental boring log - 8/15/90

depth feet	change	lithology
0-2		brown sandy loam no odor
5-7		schist chips - fine gravel size and fine-medium sand no odor (fill)
10-12		light brown coarse sand and fine gravel some medium sand no odor dry
		medium gravel
15-17		light brown medium gravel and coarse sand some fine gravel some silt no odor wet
20-22		medium gravel and medium sand some silt no odor wet

well set at 20'
10' screen
sand 8-20'
bentonite 7-8'
grout to surface (bentonite + cement)
augers steam cleaned

ASSOCIATED BORINGS CO., INC.
119 MARGARET CIRCLE
NAUGATUCK, CONN. 06770
PHONE 729-5435

TEST BORING REPORT

PROJ. Contract Plating Stratford, Connecticut

CLIENT CONTRACT PLATING

BORING NO. MW-1 (MW-Z)
LINE & STA.
OFFSET
GR. ELEV.
DATE February 6, 1986

A	STRATUM DESCRIPTION	DENSITY OR CONSIST.	BLOWS PER 6" B
	Br. M-F Sand, some M-F Grsv., Cobbles		
	"	Loose Dry	6-6 4
	"	M.Comp Moist	12-14 8
	"	M.Comp Wet	4-6 22
20	Br. C-F Sand, some M-F Grav., Cobbles	M.Comp Wet	12-14 14
	"		
	"	Dense Wet Rec:0"	50
26.5	End of Boring-26.5		
	GWO-17.0		
	Monitor Well Installed		
	10.0 Screen 15.0 Riser 1-Steel Protector		

BORING NO. MW-2 (MW-X)
LINE & STA.
OFFSET
GR. ELEV.
DATE February 6, 1986

A	STRATUM DESCRIPTION	DENSITY OR CONSIST.	BLOWS PER 6" B
	Br. C-F Sand, some M-F Grav., Cobbles		
	"	M.Comp Dry	10-10 12
10.0	Br. F. Sand	M.Comp Dry	10-12 12
	"	M.Comp Moist	10-16 14
20.0	Br. C-F Sand, Tr. M-F Grav., Cobbles	Comp Wet	15=15 16
	"	M.Comp Wet	6-10 10
26.5	End of Boring-26.5		
	GWO-17.0		
	Monitor Well Installed:		
	10.0 Screen 15.0 Riser 1-Steel Protector		

1 COL. A Blows on Casing * DRILL TIME PER FOOT
2 COL. B Blows on 1 3/8" Sampler (I.D.)
3 HAMMER = 140#, FALL 30"
4 SAMPLER = O. D. SPLIT SPOON
5 GWO = GROUND WATER OBSERVATIONS
6 # = WEIGHT OF HAMMER

FIELD — % CONTENT
AND — 40 to 50%
SOME — 10 to 40%
TRACE — 0 to 10%

HALEY & ALDRICH, INC.
GLASTONBURY, CONNECTICUT

GROUND WATER OBSERVATION WELL REPORT

PROJECT: CONTRACT PLATING CO.
LOCATION: STRATFORD, CONN.
CLIENT:
CONTRACTOR: ASSOCIATED BORINGS
DRILLER: T. LORRETTE INSPECTOR: E HENDERSON
INSTALLATION DATE 5 AUGUST 1989

FILE NO. 9410-01
WELL NO. MW7 (MW-Y
BORING NO. B6B1
LOCATION see Plan
SHEET 1 OF 1

SURVEY DATUM
GROUND ELEVATION

SUMMARIZE SOIL CONDITIONS (NOT TO SCALE)

Brown-black Fine sandy SILT
Brown, Medium-fine SAND, little gravel
Brown Black Fine sandy SILT
— FILL —
Brown Med-fine SAND, little gravel
8.0'
Light brown laminated medium-fine SAND, trace silt.
15.0
Dark gray, fine SAND, trace silt
16.5
Light brown fine sandy SILT
26.5

ELEVATION OR STICKUP ABOVE/BELOW GROUND SURFACE OF CASING OR ROADWAY BOX	1.0 ft
ELEVATION OR STICKUP ABOVE/BELOW GROUND SURFACE OF RISER PIPE.	10 in.
THICKNESS OF SURFACE SEAL	1.0 ft.
TYPE OF SURFACE SEAL	Cement
[INDICATE ALL SEALS SHOWING DEPTH, THICKNESS AND TYPE]	Bentonite 12-14 ft.
TYPE OF CASING	Standpipe
INSIDE DIAMETER OF CASING	4 in.
ELEVATION DEPTH OF BOTTOM OF CASING	4.0 ft.
INSIDE DIAMETER OF RISER PIPE	2 in.
TYPE OF BACKFILL AROUND RISER	backfill
DIAMETER OF BOREHOLE	4 in.
ELEVATION DEPTH OF BOTTOM OF RISER	15.0 ft
TYPE OF POINT OR MANUFACTURER	PVC
SCREEN GAUGE OR SIZE OF OPENINGS	0.010 in
DIAMETER OF WELLPOINT	2 in.
TYPE OF BACKFILL AROUND POINT	Ottawa Sand
ELEVATION DEPTH OF BOTTOM OF POINT	25.0 ft
ELEVATION DEPTH OF BOTTOM OF BOREHOLE	26.5 ft.

[FIGURES REFER TO: EL. ___ DEPTH ✓]

[5.0 LENGTH OF CASING L_3] [15.0 LENGTH OF RISER PIPE (L_1)] + [10.0 LENGTH OF POINT (L_2)] = 25.0 PAY LENGT

H&A FORM 59 SEP 71

Soil Sampling Log
KENNEDY & SONS TEST BORING, INC.

Sub–Surface Exploration
P.O. Box 735
Naugatuck, Connecticut 06770
Bus. (203) 723-0686

SHEET 1 OF 1
PROJ. NO. CON 6009 HG

ATE START 9/03/91
ATE FINISHED 9/04/91

/EIG' OF HAMMER 140
AMI. FALL 30"

LOCATION Stratford, CT
Contract Plating

OFFSET

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH

ESPECIALLY COMPILED FOR
HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062

GROUND ELEVATION
HOLE NO. BR- 1

SAMPLER O.D. 2" I.D. 1 5/8"

YPE OF RIG CME 55

	CASING	SAMPLER	CORE	BARRE
TYPE	HSA	SS		
SIZE I.D.	4 1/4"	1 5/8"		4"

SAMPLE NO. DEPTHS ELEV.FT.	BLOWS PER 6 IN. ON SAMPLER FROM – TO 0–6	6–12	12–18	18–24	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE NO.	PEN	REC.
							Bedrock encountered at 27.5'. The bedrock encountered is a gray shale with feldspar quartz and muscovite impurities.			
							Cored 15' into bedrock			
							Bedrock			
							First 5' - 9" recovery			
							Second 5' - 24" recovery			
							Third 5' - 36" recovery			
							B.O.B. 42.5'			
							Set well			
							10' screen			
							40' riser			
							1 screw cap			
							15 lbs. bentonite - 28.5' to 29.5'			
							50 lbs. sand - 29.5' to 42.5'			
							1 stand pipe w/lock			

Proportions used: trace = 0.10%, little = 10.20%, some = 20.35%, and 35.50%

DRILLER: Brian Kennedy
HELPER: Mike Kennedy
SOILS ENGINEER:
DRILLING INSPECTOR: Jeff S.

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
0 - 10 LOOSE
10 - 30 MED. COMP.
30 - 50 DENSE
50 + VERY DENSE

FILE: K021246

TOTAL FOOTAGE:
Earth Boring Ft.
Rock Coring Ft.
Hole No. BR- 1

Soil Sampling Log
KENNEDY & SONS TEST BORING, INC.

Sub-Surface Exploration
P.O. Box 735
Naugatuck, Connecticut 06770
Bus. (203) 723-0686

SHEET 1 OF 1
PROJ. NO. CON 6009 HG

ATE START 9/06/91
ATE FINISHED 9/11/91

/EIG' OF HAMMER 140
AM ALL 30"

LOCATION Stratford, CT
Contract Plating
OFFSET

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH

ESPECIALLY COMPILED FOR
HMH Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062

GROUND ELEVATION
HOLE NO. BR -2

AMPLER O.D. 2" I.D. 1 5/8"

YPE OF RIG CME 55

	CASING	SAMPLER	CORE	BARRE
TYPE	HSA	SS		
SIZE I.D.	4 1/4"	1 5/8"		4"

SAMPLE NO. DEPTHS ELEV.FT.	BLOWS PER 6 IN. ON SAMPLER FROM – TO 0–6	6–12	12–18	18–24	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE NO.	PEN	REC.
							Bedrock encountered at 40'. Gray shale with intrusions of garnet, chlorites, quartz and muscovite.			
							Spun 4" casing to 40'. Spun 2 1/4" casing to 41', 1' into bedrock. Cored into bedrock - 15'.			
							First 5' - 3.8' recovery			
							Second 5' - 4.7' recovery			
							Third 5' - 3.7' recovery (very factured)			
							Set well			
							10' screen			
							50' riser			
							50 lbs. sand			
							25 lbs. bentonite			
							1 screw cap			
							1 stand pipe w/lock			

Proportions used: trace = 0.10%, little = 10.20%, some = 20.35%, and 35.50%

DRILLER: Brian Kennedy
HELPER: Mike Kennedy
SOILS ENGINEER:
DRILLING INSPECTOR: Jeff S.

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
0 - 10 LOOSE
10 - 30 MED. COMP.
30 - 50 DENSE
50 + VERY DENSE

FILE: K021247

TOTAL FOOTAGE:
Earth Boring Ft.
Rock Coring Ft.
Hole No. BR -2

BORING LOG FOR:	RAYMARK/OU2 PHASE I GROUNDWATER	BORING NO.:	MW-1 (B, M)
PROJECT NO.:		START DATE:	11-11-97
LOGGED BY:	JOE MELLO	TRANSCRIBED BY: FMD	COMPLETION: DATE: 11-12-97
DRILLED BY (Company/Driller):	Enviro Tech Bill/Dan	MON. WELL NO.:	MW-1B
GRD. SURFACE ELEVATION:	16.63'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET) 0	BLOWS PER 6" (ppm)	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Surface - 4" loam	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID,Jar HS] *
2	4,5 8,7	18/24	S-1: 0'-2' S-1			dark brown	fine SAND Some silt ,<30%	SM	Dry	0.0/3.7
4										
6	4,6	24/24	S-2: 4'-6' S-2			brown				2.7/8.8
8	13, 25									
10										
12	93,94 120/6"	3/18	S-3: 10.0'-12.0' S-3				W/<3% angular gravel			0.0/3.7
14									Rods wet when	
16	20,40		S-4: 14'-16' S-4				(f-m) SAND, <30% some gravel (<1" diam., rounded), <3% trace silt		Removed @ 15fbgs Gasoline odor, Wet	2000/233.6
18	30,19	12/24								
20										
22	26,11 12,3/3"	8/21	S5: 20'-22' S-5			Gray-green	(f-c) SAND <50% and GRAVEL	SW		2000/285
24	14,14						(f) GRAVEL w/angular gravel/boulder chips (wash?)		Wet	29.6/38.9
26	9, 10	1/24	S-6 S-6: 23;-25'							
28										
30	27,26 45,55	5/24	S-7: 28'-30' S-7				(f-m) SAND <30% some gravel (rounded, <1" diam.) <3% trace silt	SM		27.7/26.3
32										

TYPE OF DRILLING RIG:	Auger		Tetra Tech NUS, Inc.
METHOD OF ADVANCING BORING:	HSA 4 1/4" I.D to 20 fbgs Drive & wash with a 4" I.D to bedrock (wash w/roller bit)		
METHOD OF SOIL SAMPLING:	24" split barrel 1 7/8" diam.		
METHOD OF ROCK CORING:	NW core barrel then roller bit to 4: O.D.		
GROUNDWATER LEVELS:	12 fbgs V		
OTHER OBSERVATIONS:	* PID Jar headspace reading w/replicates by Dock Property. See log book for more/other details.	BORING NO.: MW-1 (b,m)	PAGE: 1 OF 2

BORING LOG FOR:	RAYMARK/OU2 PHASE I GROUNDWATER		BORING NO.: MW-1 (B, M)
PROJECT NO.:			START DATE: 11-11-97
LOGGED BY:	JOE MELLO	TRANSCRIBED BY: FMD	COMPLETION: DATE: 11-12-97
DRILLED BY (Company/Driller):	Enviro Tech Bill/Dan		MON. WELL NO.: MW-1B
GRD. SURFACE ELEVATION:	16.63'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID,Jar HS]
32										
			S-8							18.3/35.7
34	29,18					gray	(f-c) SAND (f) <15% gravel (angular)	SW		426/193
	14,16	4/24	S-8: 33.0'-35.0'							
36										
38										
	23/35		S-9: 38'-40'			gray	(f-m) SAND <30% some angular (f) gravel, <15% little silt			
40	64/42	6/24	S-9					SP		55.6/32.8
42										
	33/29		S-10: 42'-44' S-10			light			pieces schist bedrock included in gravel DK gray	
44	33/38	3/24	(43-45 fbgs) 1800			gray	(f-c) SAND and (f) GRAVEL	SW		33.6/NS
46										
48										
	20,21		S-11: 48'-50'							
50	30,33		S-11				(f) gravel clean (wash) angular			2.7/5.7
52										
54	42,23		S-12: 53'-55'			brown	f-m SAND, trace silt, no gravel		1" thick horiz. bedding red brown, see photos	3.4/4.8
	25,49	12/24	S-12	Top of Bedrock 56.0						
56										
	0938/ 1030	2.8/3	C-1 (56.5-59.5)		35% RQD	gray/ green	Schist (mica + qtz rich) 70° foliation	BR	light gray wash water	
	1110/ 1140	2.5/3.5	C-2 (59.5-63)		0% RQD				fracture 62-63 fbgs roller bit to 65 fbgs	0.0/
	1450/ 1550	5/5	C-3 (65-70)		45% RQD		90° foliation			
75	1700/ 1745	5/5	C-4 (70-75)		10% RQD					

EOB 75 FBGS

TYPE OF DRILLING RIG:	Auger
METHOD OF ADVANCING BORING:	4" Drive & wash
METHOD OF SOIL SAMPLING:	split barrel
METHOD OF ROCK CORING:	NW Core barrel then roller bit to 4" O.D.
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	4" casing seated @ 56.2 used up to 2,000 gall. of H_2O to drill MW-1B boring (most in bedrock) see log book for details incl. rising head infiltration test

Tetra Tech NUS, Inc.

BORING NO.: MW-1 (b,m)

BORING LOG FOR:	RAYMARK /OU2 PHASE I GROUNDWATER		BORING NO.: MW-4
PROJECT NO.:			START DATE: 11-14-97
LOGGED BY:	J. MELLO	TRANSCRIBED BY: FMD	COMPLETION: DATE: 11-18-97
DRILLED BY (Company/Driller):	Envirotech/Dan		MON. WELL NO.: MW-4B
GRD. SURFACE ELEVATION:	14.62'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET) 0	Blows PER 6" (ppm)	SAMP REC. / SAMP LENG.(ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L(ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Asphalt surface 2" thick	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID, Jar HS]
2	20,36 / 49'/6"	4/18	S-1: 0'-2' S-1			Black	Coal - sand, silt, and gravel (angular)			0.6/1.4
4										
6	8, 15	12/24	S-2: 5'-7' S-2			Yellow orange	(f-c) SAND <15% little (f) gravel <3% trace silt	SW		0.0/0.0
8	14,16									
10										
12	9,8 / 7,6	14/24	S-3: 10'-12' S-3						Wet	0.0/0.0
14	4,10	10/24	S-4: 13'-15' S-4				(-gravel <1" diam)			
16	22,17									
18									Brown wash water	
20	28,33 / 38,46	12/24	S-5: 18'-20' S-5				(f-m) SAND <3% trace silt, <15% little (c) sand	SP		0.0/0.3
22										
24	42,110	14/24	S-6: 23'-25' S-6				(f) SAND and SILT beds 1/2 " thick			
26	105,100								Garbage/septic odor	0.0/1.0
28				Top of Bedrock 30.5'			-gravel (<15%) (<1"diam) in bottom half of sample barrel			
30	32,21 / 41,51	14/24	S-7: 28'-30' S-7				(f-m) SAND <3% trace (f) gravel <3% trace silt			0.0/NA
32				C-1				BR	Roller bit to 31.5	

TYPE OF DRILLING RIG:	Auger		Tetra Tech NUS, Inc.
METHOD OF ADVANCING BORING:	4.25 HSA to 10 fbgs, 4" casing-drive + wash to bedrock		
METHOD OF SOIL SAMPLING:	2" diameter split-barrel 24" long every five feet interval		
METHOD OF ROCK CORING:	NW core barrel 3" O.D		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	* B+R reading /AKRP reading for field screening	BORING NO.: MW-4	PAGE: 1 OF 2

BORING LOG FOR: RAYMARK /OU2 PHASE I GROUNDWATER
PROJECT NO.:
LOGGED BY: J. MELLO
DRILLED BY (Company/Driller): Envirotech/Dan
GRD. SURFACE ELEVATION: 14.62'

TRANSCRIBED BY: FMD
ELEVATION FROM: NGVD-1929

BORING NO.: MW-4
START DATE: 11-14-97
COMPLETION: DATE: 11-18-97
MON. WELL NO.: MW-4B
CHECKED BY:

DEPTH (FEET) 32	Blows PER 6" (ppm)	SAMP REC. / SAMP LENG.(ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L(ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID, Jar HS]
34			C-1 31.5'-36.5'		100% RQD	Lt gray	SCHIST (Mica rich	BR	C-1 started @ 31.5 fbgs 31.5 fbgs finished @36.5 fbgs	0.0
36		5/5	1140/1205				- 90 Foliation -Schistose texture mod. hardness			
38			C-2 36.5'-42.0'				(m-c) grain, <3% qtz -no evidence of weathering			0.0
40										
42		5/5	0635/0700							
44			C-3 42.0'-46.0'						Driller started- fracture @ 41.5 fbgs	0.0
46			0800/840							
48		5/5	C-4 46.0'-51.5'							
50									Water bearing fracture @ 50 fbgs -fe-staining	0.0
52		5/5	0900/0936							
			51.5 EOB							

TYPE OF DRILLING RIG: Auger
METHOD OF ADVANCING BORING: 4.25 HAS to 10fbgs, 4" casing-drive + wash to bedrock
METHOD OF SOIL SAMPLING: 2" diameter split-barrel 24" long every five feet interval
METHOD OF ROCK CORING: NW core barrel 3" O.D
GROUNDWATER LEVELS: Approx. 1000 gal water during drilling MW 4B-H_2O information unknown. See field log spaces for rising head test for bedrock, 0.2 foot rise/min. outcome.
OTHER OBSERVATIONS:

BORING NO.: MW-4

Tetra Tech NUS, Inc.

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WESTON BOREHOLE LOGGING DATA SHEET

Proj. No: 4100-9-87-11	Proj. Name: Stratford Sites, Stratford, CT.	Logger: M. Wagner	Borehole Loc: SPDA-E222,S132	Date: 10/20/93

Depth (BGS)	Core Sect.	Total Rec:	Lithologic Description	Comments	Sample ID
0.0-2.5	#1 0.0-4.0	2.5 ft.	Drk brn - blk, clayey silt, trace roots, trace hard white fibrous material (possibly transite), grey/blk fibrous, some grey/blk fibrous material, some organic rootlets.	Moist, fill.	(0.0-2.5)
2.5-4.0			Missing section.	No recovery.	
4.0-8.0	#2 4.0-8.0	0.0 ft.	Missing section.	No recovery.	
8.0-10.0	#3 8.0-10.0	2.0 ft.	Drk brn - blk, clayey silt, grey blk fibrous material.	Saturated at approx. 9.0 ft; fill.	(8.0-10.0)
10.0-11.3	#4 10.0-14.0	3.5 ft.	Drk brn - blk silty clay, rare f-gravel.	Saturated.	(10.0-11.3)
11.3-13.5			Med - drk brn, silt layer, peat layer, some clay content, abundant rootlets.	Saturated, appears to be natural material.	(11.3-13.5)
13.5-14.0			Missing section.	No recovery.	
14.0-15.3	#5 14.0-17.0	2.5 ft.	Drk brn - blk, clayey silt, mod organics/rootlets.	Saturated.	(14.0-15.3)
15.3-16.5			Med grey brn, silty f-sand, some m-c sand.	Saturated.	(15.3-16.5)
16.5-17.0			Missing section.	No recovery, piezometer installed, screened at 14.5-19.5 ft.	

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