Appendix F
Confirmation Sediment Core Field Logs

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L4-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, breezy, 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mailofer
DATE: 10-31-14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 27.5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC	
0				0.0-0.4 very dense light brown fine sand	SD-L04-D-0.0/0.4	RUN
				0.4-0.8 glacial till (very dense light brown silt sand w/ pea gravel & trace clay)	GT-L04-D-0.4/0.8	ARCHIVE
1						
2						
3						
4						
5						

NOTES:

STAFF GAUGE No. and ELEV: 1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 53.869" N
Y-COORDINATE: 87° 36' 35.201" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L5-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, very windy 45°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mathews

DATE: 10-31-14 START: 1000 END: 1300

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 29.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0-3.2 - glacial till (light brown/tan fine dense clay & sand w/ small pea gravel throughout)	0-0.5 GT-L05-A-0.0/0.5 ?
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.7

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 53.456 N

Y-COORDINATE: 87° 36' 36.111 W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L5-A-2 SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Sunny, calm, 35°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER:

DATE: 11-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 31

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 28.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.0 light brown dense/firm ~~non~~ low-plasticity clay w/ fine dense sand seams.	SD-L5-A-0.0/0.5
					-0.5/1.0
					-1.0/1.5
1					-1.5/2.0
					GT-L5-A-2.0/2.5
				2.0-4.0 glacial till	
					Portion out surface interval for composite SD-L5-0.0/0.5
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.5

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 53.188" N

Y-COORDINATE: 87° 36' 35.301" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L5-B	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: cloudy, windy 45°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathofer
DATE: 10-21-11 START: 1030 END: 1330

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 18.0
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-3.8, light brown, very dense very fine sand. moist to dry.	SD-L05-B-0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.5
2					3.5/3.8
					Portioned off surface interval for composite SD-L05-0.0/0.5
3					
4					
5					

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NOTES:

STAFF GAUGE No. and ELEV: ~~B~~ T1
STAFF GAUGE READING (FT): 1.7
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'52.921 N
Y-COORDINATE: 87°36'31.575 W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L5-C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, breezy, 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Manhatter
DATE: 10-21-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 0
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 25.5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.0 light brown fine sand, dense, moist	SD-L05-C-0.0/0.5
					0.5/1.0
					1.0/1.5
					1.5/2.0
				1.0-4.3 light brown, layers of fine dense sand and low plasticity clay	2.0/2.5
1					2.5/3.0
					3.0/3.5
					3.5/4.0
2				~~4.0/4.3 glacial till~~	~~GT~~ 4.0/4.3
					Portioned off surface interval for SD-L05-0.0/0.5
3					
4					
5					

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NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.7
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 52.255" N
Y-COORDINATE: 87° 36' 35.684" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L5-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, breezy 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mallister
DATE: 10/21/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT): 2.5'
WATER DEPTH (FT): 17
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.5 light brown fine dense sand	SD-L5-D-0.0/0.5
					" 0.5/1.0
				0.5-0.9 brown med-fine dense to firm sand	1.0/1.5
1					1.5/2.0
					2.0/2.7
				0.9-2.7 light brown fine very dense sand	~~2.5/3.0~~
2					~~3.0/3.7~~
					Portioned off surface interval for composite SD-L5-0.0/0.5
3					
4					
5					

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NOTES:

STAFF GAUGE No. and ELEV: T4
STAFF GAUGE READING (FT): 1.7
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 52.197" N
Y-COORDINATE: 87° 36' 34.970 W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID LG-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Cloudy, light breeze, 55°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Marhaver

DATE: 10/23/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 30.5

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 28.0

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.2 light brown very dense fine sand	
				0.2-0.3 glacial till (v.dense)	
1				0.3-0.5 pea gravel/coarse sand loose dense	
				0.5-4.0 glacial till (v.dense)	
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.6

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'51.423" N

Y-COORDINATE: 87°36'38.599" W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID LG-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: cloudy, breezy, 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe ~~w/ macrocore~~ sampler or hand core

LOGGER: Mainwin

DATE: 10/23/11 START: END:

TOP OF BARGE TO SED SURFACE (FT): 31.

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 29.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.3 light brown, very dense, fine, sand	SD-LG-D-0.0/0.3
					GT-LG-D-0.3/0.8
1				0.3-4.8 glacial till, very dense, fine sand + clay w/ pea gravel throughout	
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.10

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'51.087" N

Y-COORDINATE: 87°36'38.393 W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L07-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: cloudy, windy, 38°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mayhew

DATE: 11/4/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 27.8

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
0				0-2.2 light brown fine dense sand, trace low plasticity clay	SD-L07-C-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 archive Portioned off surface interval for composite SD-L07-0.0/0.5 + dup MN
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): ~~1.5~~ 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°65'51.375"N

Y-COORDINATE: 87°36'36.386"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L07-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER:

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER:

DATE: 11-4-11 START: END:

TOP OF BARGE TO SED SURFACE (FT): 30' 7"

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
0				0-4.8 glacial till light brown fine dense sand w/ grey low-plasticity clay & pea gravel thru-out.	GT-L07-D-0.0/0.5
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'51.155"N

Y-COORDINATE: 87°36'36.912"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L07-E

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER:

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER:

DATE: 11-4-14 START: 11:54 END:

TOP OF BARGE TO SED SURFACE (FT): 34' 8"

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.4 Glacial till (extremely dense fine sand & low-plasticity clay w/ pea gravel thru-out)	GT-L07-E-0.0/0.5
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 1.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'50.881"N

Y-COORDINATE: 87°36'37.660"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L08-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER:

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mouhuter

DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 18.7

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
0				0-4.1 light brown fine dense sand, trace silt + trace clay	SD-L08-A-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.5
					3.5/4.0
2					Bottom off surface interval for composite SD-L08-0.0/0.5 + dup
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 1.4

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'50.789"N

Y-COORDINATE: 87°36'35.681"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: LOG-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Cloudy, windy, 38°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Maihofer

DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 17.6

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.-4.6 = light brown, very dense, fine sand	SD-LOG-B-00/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/3.0
2					3.0/3.5
					3.5/4.0
					4.0/4.6
3					
4					
			4.6		
5					Portion off surface interval for composite SD-LOG-00/0.5 ! duplicate

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 50.648" N

Y-COORDINATE: 87° 36' 34.980" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L08-C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Muihofer.
DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 30.6
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT):
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0 - 2.9 = Light brown, very dense fine sand, with some clay from 0.8' - 1.3'	SD-L08-C - 0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/2.9
2					GT-L08-C - 2.9/3.4
3				2.9 - 3.6 = Glacial till (extremely dense, light brown, sandy clay, fine sands, pea gravel throughout)	
			3.6		
4					Portion off surface interval for composite SD-L08 - 0.0/0.5
5					duplicate

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 1.9
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'50.401"N
Y-COORDINATE: 87°36'36.613"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L08-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Cloudy, windy, 38°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mihofer

DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 29.3

TOP OF BARGE TO WATER (FT): 2.3

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.2 = Light brown, firm, fine sand	SD-L08-D- 0.0/0.5
				0.2-1.5 = Light brown, non plastic clay soft to firm, with some fine sand	0.5/1.0
					1.0/1.5
1					GT-L08-D-1.5/2.0
				1.5-4.2 = Glacial Till (extremely dense, light brown, sandy clay, fine sands, pea gravel throughout)	
2					
		4.2			
3					Portion off surface interval for composite SD-L08-0.0/0.5
4			4.2		Duplicate
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 1.4

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'50.003" N

Y-COORDINATE: 87°36'35.742" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L09-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: cold, windy 35°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathuter
DATE: 11/10/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 33.3
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 30.8
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.1 light brown firm fine sand, trace clay	SD-L09-A-0.0/0.5
					" 0.5/1.0
					↓ 1.0/1.5
					1.5/2.0
1				1.1-2.0 light brown firm to soft intermingling fine sand & soft non-pl clay	GT-L09-A-2.0/2.5
					Portion of surface interval for composite.
				2.0-2.8 glacial till, dense	SD-L09-0.0/0.5
2					dup
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 2.4
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'49.640"N
Y-COORDINATE: 87°36'36.959"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L09-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: cold, windy 35°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mathsler

DATE: 11/6/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 37.2

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.0 soft brown/reddish light br sand, fine-med, some silt (brown & black), trace soft clay	SD-L09-B-0.0/0.5 SD-L09-B-0.5/1.0 GT-L09-B-1.0/1.5
1				1.0-2.5 glacial till	Portion off surface interval for composite SD-L09-0.0/0.5 & dup
2					
3					
4					
5	7.5				

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 2.4

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'49.310"N

Y-COORDINATE: 87°36'35.641"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L09-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
WEATHER: cloudy, cold, windy 32°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahoney
DATE: 11/6/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 32.5'
TOP OF BARGE TO WATER (FT): 2.5'
WATER DEPTH (FT): 30.0'
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0 - ~~0.8~~ 0.6 light brown + reddish soft/firm nonplastic clay w/ fine sand 0.6 - 4.9 glacial till	SD-L09-C-0.0/0.6 GT-L09-C-0.6/1.1 Portion off surface interval for composite: SD-L09-0.0/0.5 & dup
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: 11
STAFF GAUGE READING (FT): 2.4
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.739"N
Y-COORDINATE: 87°36'36.692"W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L09-D SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: cloudy cold windy 32°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Nauhuter

DATE: 11/6/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 27.7

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 25.2

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.3 dark brown soft silty fine sand, trace organics	SD-L09-D-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.3-1.4 light brown fine firm sand, trace silt, trace med-gr sand	1.5/2.0
					2.0/2.4
					Portion off sulfate interval for composite SD-L09-0.0/0.5 & dup
				1.4-2.2 light brown fine sand & low-pl. clay, dense	
2					
				2.2-2.4 light brown firm/dense fine sand.	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 2.4

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.033"N

Y-COORDINATE: 87°36'36.236"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L10-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Cloudy, windy, 38°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mainofer

DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 18.5

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-4.2 = Light brown, extremely dense, fine sand, poorly graded.	SD-L10-A-0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/3.0
2					3.0/3.5
					3.5/4.2
3					
		4.2			
4					
			4.2		
5					Portion off surface interval for composite SD-L10-0.0/0.5

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'50.411"N

Y-COORDINATE: 87°36'34.516"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L10-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 17.5

WEATHER: Cloudy, windy, 38°F

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mainor

SED THICKNESS TO REFUSAL (FT):

DATE: 11/5/14 START: END:

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0 - 2.2 = Light brown, fine to medium sand, dense, poorly graded	SD-L10-B - 0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
				2.2 - 3.8 = Light brown, extremely dense fine sand	2.0/2.5
					2.5/3.0
					3.0/3.5
2					3.5/3.8
3					
		3.8			
			3.8		
4					
					Portion off surface interval for composite
5					SD-L10-0.0/0.5

NOTES:

STAFF GAUGE No. and ELEV: 7.1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'50.019" N

Y-COORDINATE: 87°36'33.773" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L10-C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Cloudy, windy, 38°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mishoter

DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 25.4

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0-0.4: Light brown, fine to medium sand, firm to dense	SD-L10-C-0.0/0.5
				0.4-0.7: Medium to coarse sand, dark brown, well graded, firm to dense.	-0.5/1.0
1				0.7-1.0: Same as 0-0.4	-1.0/1.5
				1.0-2.0: Light brown, soft non-plastic clay with some fine sand	-1.5/2.0
					-2.0/2.5
					-2.5/3.0
2					-3.0/3.5
				2.0-2.6: Same as 0-0.4	
		3.5		2.6-3.5: Light brown, low to medium plasticity clay, soft to firm	
3					Portion off surface interval for composite
			3.5		SD-L10-0.0/0.5
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'49.664"N

Y-COORDINATE: 87°36'34.558"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L10-C m	SHEET 1 OF 2

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
WEATHER: cloudy, windy, 38°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Manhofer
DATE: 11/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 27.8
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 25.3
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0	3.5			3.5-4.7 light brown very dense fine sand w/ some dense clay 4.7-6.7 light brown soft to firm low-pl clay w/ some fine sand thru-out	SD-L10-C- 3.5/4.0 & dup 4.0/4.5 4.5/5.0 5.0/5.5 5.5/6.0 6.0/6.7
1					
2					
3					
		6.7			
4					
5	8.5				

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 2.2
WATER ELEVATION:
SEDIMENT ELEVATION:

L10-C-2

X-COORDINATE: 45°05'49.575" N
Y-COORDINATE: 87°36'34.436" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L10-C	SHEET 2 OF 2

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
WEATHER: cloudy, windy, 38°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Hightower
DATE: 11/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT):
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT): 11.5

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OAVOC, ETC
0	7			7-11.3 glacial till (light reddish br. clay + fine sand + gravel, dense)	GT-L10-C-7/7.5 + dup
1					
2					
3					
4		11.3			
	11.5				
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE:

Y-COORDINATE:

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L10-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Cloud, windy, 30°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mulholter

DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 29.0

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
0				0-1.7 = Light brown, fine sand with some soft non-plastic clay, trace medium sand, firm	SD-L10-D - 0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
				1.7-4.6 = Light brown, intermingeling layers of fine sand and low plasticity clays, soft	2.0/2.5
					2.5/3.0
					3.0/3.5
2					3.5/4.0
					4.0/4.6
3					
		4.6			
4					
			4.6		Partition off surface interval for composite SD-L10-0.0/0.5
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'49.364" N

Y-COORDINATE: 87°36'34.171" W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L11-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: partly sunny, cold, breezy

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Manoter

DATE: 11/7/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 30.6

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	W/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.8 light brown firm to dense fine sand, trace soft clay	SD-~~L0~~L11-A-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
				0.8-2.8 light brown non-plastic soft clay mixed w/ fine sand	2.5/2.8
					GT-L11-A 2.8/3.4
2					Return off surface interval for composite SD-L11-0.0/0.5
				2.8-3.4 glacial till, clay & fine sand w/ pebbles	
3					
4					
5	w				

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 48.629" N

Y-COORDINATE: 87° 36' 35.309" W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L11-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: partly sunny, cold, breezy

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mechuter

DATE: 11/7/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 26.4

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OAVOC, ETC
0				0-0.7 light brown fine sand, soft to firm, wet	SD-L11-B-0.0/0.5 SD-L11-B-0.5/1.0 GT-L11-B-1.0/1.5
1				0.7-1.0 light brown fine sand, firm, some firm low-pl clay.	Portion out surface interval for composite SD-L11-0.0/0.5
2				1.0-4.2 glacial till, reddish-light brown, very dense fine sand & clay, tiny pebbles throughout	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°65'48.376"N

Y-COORDINATE: 87°36'34.466"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L11-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: partly sunny, cold, breezy

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/macrocore sampler or hand core

LOGGER: Maynoter

DATE: 11/7/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 29.6

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 27.1

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	W/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
0				0-1.2 light brown/reddish brown fine dense sand, trace clay	SD-L11-C-0.0/0.5 SD-L11-C-0.5/1.2 MT-L11-C-1.2/1.7
1				1.2-3.8 glacial till, reddish light brown clay w/fine sand & tiny pebbles throughout	Portion off surface interval for composite SD-L11-0.0/0.5
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'47.912"N

Y-COORDINATE: 87°36'35.495"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L11-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: partly sunny, cold, breezy

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahler

DATE: 11/7/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 28.4

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 25.9

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.4 light brown fine v. dense sand	SD-L11-D-0.0/0.5
					" 0.5/1.0
				0.4-4.8 light reddish brown fine sand intermingled w/ low-pl clay. Dense.	1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/3.0
2					3.0/3.5
					3.5/4.0
					4.0/4.8
3					Porture off surface interval for composite SD-L11-0.0/0.5
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.736" N

Y-COORDINATE: 87°36'35.135" W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L12-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: cloudy, windy, 38°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahoter

DATE: 11/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 20.2

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
0				0-4.6 light brown fine dense sand, trace firm clay (low pl)	SD-L12-A-0.0/0.5 + dup " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.6 Portioned off surface interval for composite SD-L12-0.0/0.5
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'49.446"N

Y-COORDINATE: 87°36'33.292"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L12-~~A~~B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: cloudy, windy, 38°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Moulton

DATE: 11/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 17.2

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
0				0-0.3 light brown fine firm sand.	SD-L12-B-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.3-1.1 light brown fine sand w/ lm-pl clay, firm	1.5/2.0
					2.0/2.5
				1.1-3.2 light brown firm ~~firm~~ fine-med sand, trace silt	2.5/3.0
2					3.0/3.5
					3.5/4.0
					4.0/4.6
				3.2-4.6 light br. extremely dense fine sand	Portioned off surface interval for composite SD-L12-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 0.0

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'49.387"N

Y-COORDINATE: 87°36'32.678"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L12-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: cloudy, windy, 38°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mouhoter

DATE: 11/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 16.4

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.0 Brown med-coarse sand, wood pieces 0.8-1.0, firm	SD-L12-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				1.0-3.6 light brown fine dense dry sand	1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.6
2					Portion off surface interval for composite SD-L12-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.988"N

Y-COORDINATE: 87°36'32.938"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L12-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Cloudy, windy, 38°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahoney

DATE: 11/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7'

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0 - 2.5 dark brown well-graded med-coarse sand, trace silt	SD-L12-D-0.0/0.5
					0.5/1.0
1					1.0/1.5
					1.5/2.0
				2.5-2.9 wood	2.0/2.5
2					Portion off surface interval for composite SD-L12-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 48.469" N

Y-COORDINATE: 87° 36' 32.087" W

need 8 ft

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L13-A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, cold, clear 30°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Malrotter
DATE: 11/12/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 21.4
TOP OF BARGE TO WATER (FT): 2.1
WATER DEPTH (FT): 18.3
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT) 1st core	PENETRATION (FT) 2nd	RECOVERY (FT)	W/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0	4				0-7.1 fine dense sand, light brown, trace silt, trace clay 7.1-8.5 glacial till	SD-L13-A-0.0/0.5
						0.5/1.0
						" 1.0/1.5
1						1.5/2.0
						2.0/2.5
						2.5/3.0
						3.0/3.5
2						3.5/4.0
						4.0/4.5
						4.5/5.0
3						5.0/5.5
						5.5/6.0
						6.0/6.5
						6.5/7.1
4						GT-L13-1-7.1/7.6
						Composite SD-L13-0.0/0.5
5	9					

+ dup

run, no report

archive

NOTES:

STAFF GAUGE No. and ELEV: 1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.032"N
Y-COORDINATE: 87°31'33.485

CH2MHILL

PROJECT NUMBER: 350184.LP.06.CS

STATION ID: L13-B

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP

WEATHER: Snowy, windy, 32°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahoter

DATE: 11/11/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 9.4

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE	COMMENTS: SAMPLE ID, DMOC, ETC
0				0-0.7 coarse sandy silt, brown, soft trace organics	SD-L13-B-0.0/0.5
					0.5/1.0
1				0.7-2.6 brown med-coarse silty Sand, some wood fragments soft-firm	1.0/1.5
					1.5/2.0
					2.0/2.6
2					Portion of surface interval for composite SD-L13-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.005"N

Y-COORDINATE: 87°36'32.425"W

Start @ 2.5' - 7.5'

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L13-B	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
WEATHER: Sunny, cold, clear, 30°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahuter
DATE: 11/12/14 START: END:

X TOP OF BARGE TO SED SURFACE (FT): 8.0
X TOP OF BARGE TO WATER (FT): 2.7
WATER DEPTH (FT): ~~5.0~~ 5.3
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	W/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
2.5 0				2.5-5.5 med-coarse sand, firm, dark brown, some silt trace organics	SD-L13-B-2.5/3.0 + dup 3.0/3.5 3.5/4.0 4.0/4.5 4.5/5.0 5.0/5.5 archive
1					
2					
3		5.5			
4					
7.5 5					

NOTES:

STAFF GAUGE No. and ELEV: 11
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X X-COORDINATE: ~~45° 05' 47.182" N~~ 45° 05' 48.005" N
X Y-COORDINATE: ~~87° 36' 32.938" W~~ 87° 36' 32.4251

need 8 ft

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L13-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: sunny, clear, ~~cl~~ cold, 30°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mathotex

DATE: 11/12/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 22.9

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT): 20.2

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
1st core	2nd				
0 0	4			0-3.5 light brown very dense fine sand	SD-L13-C-0.0/0.5
					0.5/1.0
					1.0/1.5
1				3.5-9.0 glacial till reddish light br. clay + sand, ex. dense, few tiny pepples	1.5/2.0
					2.0/2.5
					2.5/3.0
2					3.0/3.5
					GT-L13-C-3.5/4.0
3				second core (4-9') liner shredded - all till, no ~~phone~~ photo	
4					
5 5	9				

run, no report

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'47.454"N

Y-COORDINATE: 87°36'33.981"W

CH2MHILL

PROJECT NUMBER: 550184.LP.06.CS

STATION ID: L12-C-2

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: snowy, windy, 32°

CONTRACTOR: Cylinder Engineering

EQUIPMENT: Geoprobe w/ ~~discrete~~ sampler or head core

LOGGER: Mauhofer

DATE: 11/11/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 18.1

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OMOC, ETC
0	3.5			3.5-9.5 light brown very dense fine sand, trace clay	SD-L12-C 3.5/4.0
					" 4.0/4.5
1					4.5/5.0
					5.0/5.5
					5.5/6.0
					6.0/6.5
2	6				6.5/7.0
	8.5				7.0/7.5
					7.5/8.0
3					8.0/8.5
					8.5/9.0
					9.0/9.5
4					GT-L2-C 9.5/10.0
				9.5-10.5 glacial till	~~10.0/10.5~~
	11				
5					

1st

2nd

dup

run

run, don't report

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.818

Y-COORDINATE: 87°36'32.976

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L13-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
WEATHER: Snowy, windy, 32°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mainster
DATE: 11/11/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 20.2
TOP OF BARGE TO WATER (FT): 2.7
WATER DEPTH (FT):
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	W/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-3.7 light brown dense to v. dense fine sand	SD-L13-D-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/3.0
2					3.0/3.7
					Portion off surface interval for composite SD-L13-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: +1
STAFF GAUGE READING (FT): 1.2
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'47.189"N
Y-COORDINATE: 87°36'32.938"W

Start @ 3.5' - 8.5'

CH2MHILL

PROJECT NUMBER: 550184.LP.06.CS

STATION ID: L13-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: sunny, cold, clear

CONTRACTOR: Columbia Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mr. Hofer

DATE: 11/12/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 19.7

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT): ~~19.7~~ 17.0

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	SAMPLE TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
3.5				3.5-8.0 light brown extremely dense fine sand	SD-L13-D-3.5/4.0
					" 4.0/4.5
					4.5/5.0
					5.0/5.5
					5.5/6.0
					6.0/6.5
					6.5/7.0
					7.0/7.5
					7.5/8.0
		8.0			
8.5					

archive

NOTES:

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 47.040" N

Y-COORDINATE: 87° 36' 32.838 W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L14-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: cloudy, windy, 33°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Meinsten

DATE: 11/10/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 13.9

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT): 11.0

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.2 brown med-coarse sand, some silt, firm	SD-L14-A-0.0/0.5
					0.5/1.0
					1.0/1.5
1				1.2-4.0 light brown fine dense sand	1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.5
2					3.5/4.0
					~~Portion~~ Portion off surface interval for composite SD-L14-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.3

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'47.463"N

Y-COORDINATE: 87°36'32.420"W

Start @ 4.0'-9.0'

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L14-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
WEATHER: sunny, cold, clear
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mailwater
DATE: 11/12/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 9.9
TOP OF BARGE TO WATER (FT): 2.7
WATER DEPTH (FT): ~~7.9~~ 7.2
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	W/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
4.0				~~0-2.0~~ 4.0-6.0 brown med to coarse sand, trace silt, firm 6.0-7.6 light brown fine dense sand	SD-L14-A-4.0/4.5 " 4.5/5.0 5.0/5.5 5.5/6.0 6.0/6.5 6.5/7.0 7.0/7.6
1					
2					
3					
4					
5					

archive (do not report)

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): T1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 47.564" N
Y-COORDINATE: 87° 36' 32.264" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L14-B	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: snowy, windy 32°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahoter

DATE: 11/11/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 13.3

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.8 brown fine to coarse sand, well graded, firm, trace silt	SD-L14-B-0.0/0.5 a dup 0.5/1.0 ~~1 dup~~ 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.4
1				1.8-4.4 light brown, fine sand, trace silt, dense	
2					
3					Portioned off surface interval for composite SD-L14-0.0/0.5
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'47.031

Y-COORDINATE: 87°36'32.318

Start @ 4.5' - 9.5'

CH2MHILL

PROJECT NUMBER: 550184.LP.06.CS

STATION ID: L14-B

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP

WEATHER: Sunny, cold, clear

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mathotra

DATE: 11/12/14

START:

END:

TOP OF BARGE TO SED SURFACE (FT): 14.1

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT): ~~9.4~~ 11.4

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OVOC, EIC
4.5 0				4.5 - 9.2 light brown ex. dense fine sand, trace clay	SD-L14-B-4.5/5.0
					5.0/5.5
					5.5/6.0
1					6.0/6.5
					6.5/7.0
					7.0/7.5
2					7.5/8.0
					8.0/8.5
					8.5/9.2
3					
4					
9.5 5					

archive do not report

NOTES:

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 47.058" N

Y-COORDINATE: 87° 36' 32.342" W

CH2MHILL

PROJECT NUMBER: 550184.LP.06.CS

STATION ID: L14-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Snowy, windy, 32°

CONTRACTOR: Colorado Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Manhotter

DATE: 11/11/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 8.2

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	SITYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE	COMMENTS: SAMPLE ID, OAQC, ETC
0				0-1.4 dark brown silty med-gr sand, firm, trace organics	SD-L14-C-0.0/0.5 0.5/1.0 1.0/1.4 Portion off surface interval for composite SD-L14-0.0/0.5
1					
2					
3					
4					
5					

NOTES:

first push no recovery
second push no recovery
move a couple ft over,
small rec.

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.875

Y-COORDINATE: 87°36'31.2~~2~~66

Start @ 1.5'-6.5'

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L14-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Sunny, cold, clear

CONTRACTOR: Columbia Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Manhuter

DATE: 11/12/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 8.5

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT): 5.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	NTYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/QC, ETC
1.5 0				1.5-2.3 dark brown silty coarse sand	SD-L14-C-1.5/2.0
					" 2.0/2.5
				2.3-5.1 dark brown med-coarse sand, trace silt	2.5/3.0
1					3.0/3.5
					3.5/4.0
				5.1-5.2 light br fine dense sand	4.0/4.5
2					4.5/5.2
3					
4					
6.5 5					

another do not rpwt.

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.7

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05 46.922" N

Y-COORDINATE: 87° 36' 31.324" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L14-D	SHEET 1 OF 1

PROJECT: Tyco Fire Products LP
WEATHER: Snowy, windy, 32°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mounter
DATE: 11/11/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 8.4
TOP OF BARGE TO WATER (FT): 2.7
WATER DEPTH (FT):
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	W/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0 - 2.8 brown med-coarse sand, well graded, ~~some~~ little silt, trace organics	SD-L14-D-0.0/0.5 dup
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.8
				2.8-3.0 wood pieces	~~2.8/3.0~~
					Portioned off surface interval for composite SD-L14-0.0/0.5
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.2
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.477
Y-COORDINATE: 87°36'30.662

Start @ 3.0' - 8.0'

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L14-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: sunny, cold, clear

CONTRACTOR: Columbia Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahnter

DATE: 11/12/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7.7

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT): ~~7.7~~ 5.0

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
3.0 0				3-5.5 brown med-coarse sand, trace silt, firm	SD-L14-D-3.0/3.5
					3.5/4.0
1					4.0/4.5
					4.5/5.0
				5.5-6.6 light brown fine dense sand	5.0/5.5
2					5.5/6.0
					6.0/6.6
3					
4					
8.0 5					

archive do not report

NOTES:

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.7

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 46.4442" N

Y-COORDINATE: 87° 36' 30.875" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L15-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, 50
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathofer
DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 6.5
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 4.0
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.6 silty fine-med sand, brown, soft	SD-L15-A-0.0/0.5
					0.5/1.0
					1.0/1.5
				0.6-4.0 brown coarse to med sand, trace silt,	1.5/2.0
1					2.0/2.5
					2.5/3.0
				4.0-4.4 wood chunks (not sampled)	3.0/3.5
2					3.5/4.0
					Portioned off surface interval for composite SD-L15-0.0/0.5
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.506"N
Y-COORDINATE: 87°36'30.243"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L15-B SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny 50
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/macrocore sampler or hand core
LOGGER: Mathofer
DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7.5
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 5.0
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				~~0-0~~ 0-1.0 fine to med sand, brown, soft to firm trace silt + wood 1.0-4.0 fine to coarse sand, soft to firm, trace wood + silt	SD-L15-B-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 Portioned off surface interval for composite SD-L15-0.0/0.5
1					
2					
3					
4					
5					

archive

run

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.476"N
Y-COORDINATE: 87°36'28.971"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L15-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mauhter
DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 4.5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-4.5 fine to coarse sand, some silt and wood chips, firm, brown	SD-L15-C-0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.5
2					3.5/4.0
					4.0/4.5
					Portioned off surface interval for composite SD-L15-0.0/0.5
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.705"N
Y-COORDINATE: 87°36'27.917"W

L15-D

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID ~~L15-G~~

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: sunny 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe ~~w/ macrocore~~ sampler or hand core

LOGGER: Meihster

DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 8.0'

TOP OF BARGE TO WATER (FT): 2.5'

WATER DEPTH (FT): 5.5'

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-3.5 Brown well graded sand w/10% silt + trace wood chips, firm	SD-L15-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 archive
1					
2					Portion off surface interval for composite SD-L15-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.203" N

Y-COORDINATE: 87°36'28.167" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L16-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Manhofer

DATE: 10/23/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 8'

TOP OF BARGE TO WATER (FT): 2.5'

WATER DEPTH (FT): 5.5'

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-4.0 brown fine-coarse sand, trace silt, trace wood, firm	SD-L16-A-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0 archive
					2.0/2.5
					2.5/3.0
					3.0/3.5
2					3.5/4.0
					Portioned off surface interval for composite
3					SD-L16-0.0/0.5
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: +1

STAFF GAUGE READING (FT): 1.5

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 47.805" N

Y-COORDINATE: 87° 36' 29.246" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L16-B	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathofer
DATE: 10/23/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 9.0 ft
TOP OF BARGE TO WATER (FT): 2.5 ft
WATER DEPTH (FT): 6.5 ft
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.2 brown fine to med sand, some silt, trace wood (wood at bottom of core)	SD-L16-B-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 archive Portioned off surface material for composite SD-L16-0.0/0.5 run
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.5
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 47.428" N
Y-COORDINATE: 87° 36' 28.419" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L16-C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ ~~macrocore~~ sampler or hand core
LOGGER: Mathews
DATE: 10/23/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 6.5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-3.4 brown fine-coarse well graded sand, trace silt, trace wood, trace organics, soft-firm	SD-L16-C-0.0/0.5 archive
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.4
					Portioned off surface interval for composite SD-L16-0.0/0.5 MN
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.5
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.898" N
Y-COORDINATE: 87°36'29.441" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L16-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mallister
DATE: 10/23/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7.5 ft
TOP OF BARGE TO WATER (FT): 2.5 ft
WATER DEPTH (FT): 5.0 ft
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.6 fine sandy silt w/ 50% organics, soft, dark brown	SD-L16-D-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.6-3.2 well graded fine-coarse sand, trace silt, trace organics soft, brown	1.5/2.0 archive
					2.0/2.5
					2.5/3.2
					Portion of composite surface interval SD-L16-0.0/0.5 run
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.5
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.644"N
Y-COORDINATE: 87°36'29.804"W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L17-A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny 50

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/macrocore sampler or hand core

LOGGER: Mahoney

DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 4.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-3.9 Brown med-coarse sand, well graded, some wood chips throughout, trace silt	SD-L17-A-0.0/0.5 archive
					" 0.5/1.0 archive
					1.0/1.5 archive
1					1.5/2.0 archive
					2.0/2.5 archive
					2.5/3.0 archive
					3.0/3.5 archive
2					3.5/3.9 archive
					Portion off surface interval for composite SD-L17-0.0/0.5 run
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: 17

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.498"N

Y-COORDINATE: 87°36'27.070"W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L17-B SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mauhofer

DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 4.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.7 sandy silt, soft, wood chips, brown	SD-L17-B-0.0/0.5
					" 0.5/1.0
				0.7-1.0 silty med-sand, soft, wood chips brown	1.0/1.5
1					1.5/2.0 archive
					2.0/2.5
					2.5/3.0
				1.0-3.7 brown well graded sand, trace silt, firm	3.0/3.7
2					Portion off surface interval for composite SD-L17-D.0/0.5 non
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 48.195" N

Y-COORDINATE: 87° 36' 26.377" W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L17-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahofer

DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 8'

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 5.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.8 fine-med sand, brown, trace silt, firm	SD-L17-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.8-3.5 med-coarse well graded sand, some silt, trace wood, firm, brown	1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.5
2					Portion off surface interval for composite SD-L17-0.0/0.5
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'47.951"N

Y-COORDINATE: 87°36'27.419"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L17-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahofer
DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 9.0 ft
TOP OF BARGE TO WATER (FT): 2.5 ft
WATER DEPTH (FT): 6.5 ft
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.5 brown fine-med well graded sand, trace silt, firm	SD-L17-D-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.5-4.0 brown fine-coarse well graded sand, trace wood, firm	1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.5
2					3.5/4.0
					Portion off surface interval for composite SD-L17-0.0/0.5
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'47.557"N
Y-COORDINATE: 87°36'26.914"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID ~~K18~~ 118-A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, breezy 56°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathoter
DATE: 10-21-14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 7.5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0-0.1 sandy dark brown silt, soft	SD-118-A-0.0/0.5
					" 0.5/1.0
				0.1-2.2 dark brown med-coarse sand, trace silt, firm	1.0/1.5
1					1.5/2.2
					Portioned off surface interval for composite SD-118-0.0/0.5
2					
3					
4					
5					

archive

run

NOTES: core catcher pushed up into core @ surface (second try, first core <1' recovery

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'47.029"N
Y-COORDINATE: 87°36'27.484"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L18-B	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny 45°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathofer
DATE: 10-21-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 9.0
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 6.5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0-2.9 brown med-coarse sand, trace shells, firm	SD-L18-B-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/2.9 archive
1					
2					Portion off surface interval for composite SD-L18-0.0/0.5 run
3					
4					
5					

NOTES: core catcher push up into core @ surface (second try, first core <1' recovery)

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.775"N
Y-COORDINATE: 87°36'26.987"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L18-C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, 40°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahoter
DATE: 10-21-14 START: END: 10/22/14

TOP OF BARGE TO SED SURFACE (FT): 8.5
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 6.0
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.5 dark brown silty med-grain sand, soft, some organics	SD-L18-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
					1.5/2.0
1				0.5-2.0 brown med-coarse sand, trace silt, firm	Portion off surface interval for composite SD-L18-0.0/0.5
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: 1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.562" N
Y-COORDINATE: 87° 36'28.197" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L18-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny 40°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mainhart
DATE: 10-21-14 START: END: 10/22/14

TOP OF BARGE TO SED SURFACE (FT): 7.5
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.5 brown silty med-coarse sand w/ wood pieces, soft to firm	SD-L18-D-0.0/0.5
					0.5/1.0
					1.0/1.5
					1.5/2.0
1				0.5-2.0 brown med-coarse sand, trace silt, firm to loose	Portion of surface interval for composite SD-L18-0.0/0.5
					& SD-L18-0.0/0.5-D (dup)
2					
3					
4					
5					

archive

run

NOTES:

STAFF GAUGE No. and ELEV: 11
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 45.845" N
Y-COORDINATE: 87° 36' 27.393" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L19-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER:
DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 8
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 5.5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-3.2 dark brown med-coarse sand, some silt, firm-loose	~~0~~-SD-L19-A-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.2 Partion off surface interval for composite SD-L19-0.0/0.5
1					
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 46.630" N
Y-COORDINATE: 87° 36' 25.968" W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L19-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER:

DATE: 10-27-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 7

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 4.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.6 brown fine-med ~~loose~~ sand w/ 25% silt + some organics	SD-L19-B-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.6-3.2 ~~med~~ brown med-coarse sand w/ trace silt, loose to firm	1.5/2.0
					2.0/2.5
					2.5/3.2
2					Portioned off surface interval for composite SD-L19-0.0/0.5
3					
4					
5					

archive

run

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.094" N

Y-COORDINATE: 87° 36' 25.307" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L19C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, calm 40°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathiter
DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 8.0
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 5.5
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-3.4 brown med-coarse sand, trace silt, firm to loose	SD-L19-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				Silt layer (dark brown, soft) from 3.0-3.2	1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.4
2					Portion off surface interval for composite SD-L19-0.0/0.5
3					
4					
5					

archive

run

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.5
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'45.841" N
Y-COORDINATE: 87°36'26.100" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L19-D SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, calm / 40°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahoter
DATE: 10-22-14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 6.5
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 4.0
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-4.0 fine to coarse brown ~~silt~~ sand w/ trace silt	SD-L19-D-0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0 archive
					2.0/2.5
					2.5/3.0
					3.0/3.5
2					3.5/4.0
					Portioned off surface interval for composite SD-L19-0.0/0.5 run
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.5
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'45.369"N
Y-COORDINATE: 87°36'25.292"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L20-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, breezy, 40°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mallinder
DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 25.3
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT):
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, DA/OC, ETC
0				0-1.5 light brown moist fine firm sand, trace low-pl. clay	SD-L20-A-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				1.5-4.6 light brown clay, ~~med~~ plasticity soft to firm, density increasing w/ depth. Trace fine sand.	1.5/2.0
					2.0/2.5
					2.5/3.0
2					3.0/3.5
					3.5/4.0
					4.0/4.6
3					Portion out surface interval for composite SD-L20-0.0/0.5 & dup.
4					
5					

NOTES:
low recovery on first try

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 1.4
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°55'46.471"N
Y-COORDINATE: 87°36'35.525

L20-B

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID ~~L20-A~~	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, breezy, 40°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mattson

DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 27.3

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.7 light br soft low plasticity clay, some fine sand	SD-L20-B-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.7-1.7 light br fine dense sand, some clay	1.5/2.0
					2.0/2.5
					2.5/3.0
				1.7-2.6 light br firm to dense clay, some fine sand, med-low plasticity	3.0/3.5
2					3.5/4.0
					Portion off surface interval for composite SD-L20-0.0/0.5 + dup
				2.6-4.0 light br fine v. dense sand, some clay throughout	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'45.992"N

Y-COORDINATE: 87°36'35.060"

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L20-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: sunny, breezy 40°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahoter

DATE: 11/4/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 25.1

TOP OF BARGE TO WATER (FT): 15

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.5 ~~tan~~ light br fine sand, moist, firm, some clay	SD-L20-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				1.5-2.0 light br clay w/ fine sand, dense	1.5/2.0
					2.0/2.5
				2.0-3.4 light br. fine sand, dense, trace clay	2.5/3.0
2					3.0/3.4
					~~Co~~ Portion off surface interval for composite SD-L02-0.0/0.5 + dup
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 46.333" N

Y-COORDINATE: 87° 36' 34.333" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L20-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, breezy, 40°F
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahuter
DATE: 11/5/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 24.4
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT):
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.6 light brown fine firm to dense sand, trace clay	SD-L20-D-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.6 Bottom off surface interval for composite SD-L20-0.0/0.5 + dup
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 1.9
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.474"N
Y-COORDINATE: 87°36'33.653"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L21-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Cloudy, windy, 35°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Muhofer

DATE: 11-4-11 START: 3:30 END:

TOP OF BARGE TO SED SURFACE (FT): 21.5

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-3.2: light brown, ~~very~~ firm to to very dense, fine sand, trace low plasticity clay	SD-L21-A-0.0/0.5
					" " " 0.5/1.0
1					" " " 1.0/1.5
					" " 1.5/2.0
2					2.0/2.5
					2.5/3.2
3			3.2		~~3.0/3.2~~
					Partitioned off surface interval for composite
4					SD-L21-0.0/0.5
					&
5					duplicate

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): ~~1.8~~ 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'46.043"N

Y-COORDINATE: 87°36'32.824"W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L21-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Cloudy/windy, 35°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mainder

DATE: 11/4/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 10' -1"

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0–1.7: Brown, well graded medium to coarse sand, some silt, dark brown silt lense @ 0.6', firm	SD-L21-B-0.0/0.5
					0.5/1.0
1					1.0/1.5
				1.7–3.2: Light brown, firm, fine to medium sand, trace silt.	1.5/2.0
2		3.2			2.0/2.5
					2.5/3.2
3			3.2		
					portion off surface interval for composite
4					SD-L21-0.0/0.5
					⋮
5					duplicate

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'45.674"N

Y-COORDINATE: 87°36'31.730"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L21-C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Cloudy, windy, 35°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mathofer

DATE: 11/4/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 16' 7"

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, OA/OC, ETC
0				0-2.9: Light brown, firm ~~to~~ fine sand, trace silt	SD-L21-C - 0.0/0.5
					0.5/1.0
1					1.0/1.5
					1.5/2.0
2					2.0/2.5
					2.5/2.9
3			2.9		Portion off surface interval for composite
					SD-L21-0.0/0.5
4					⋮
					Duplicate
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'44.230" N

Y-COORDINATE: 87°36'32.586" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L21-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Cloudy, windy, 35°F
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Munofer
DATE: 1/4/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 10' 3"
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT):
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.3 = Brown, well graded, firm medium to coarse, trace silt	SD-L21-D - 0.0/0.5
					0.5/1.0
1				1.3-2.4 = Light brown, well graded firm, fine to medium sand, trace silt.	1.0/1.5
					1.5/2.0
2					2.0/2.5
				2.3-3.6 = Same as above; more fines, woody organic matter from 2.7-2.8'	2.5/3.0
3					3.0/3.6
			3.6		
4					Portion off surface interval for composite SD-L21-0.0/0.5 ! Duplicate
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'45.420"N
Y-COORDINATE: 87°36'30.778"W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L22-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: sunny light breeze 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Malwater

DATE: 10/28/14 START: 1010 END:

TOP OF BARGE TO SED SURFACE (FT): 1

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 8.5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.4 dark brown/black very soft & loose fine sandy silt w/ trace organics + wood	SD-L22-A-0.0/0.5
					" 0.5/1.0
					1.0/1.5
					1.5/2.0
1					2.0/2.6
					Portion off surface interval for composite SD-L22-0.0/0.5
				2.4-2.6 brown fine-med firm sand, some silt.	
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT):

WATER ELEVATION:

SEDIMENT ELEVATION:

X X-COORDINATE: 45°05'44.797"N

Y Y-COORDINATE: 87°36'31.671"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L22-B	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, breezy, 53°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ ~~macrocore~~ sampler or hand core
LOGGER: Mathoten
DATE: 10/28/14 START: 1030 END:

TOP OF BARGE TO SED SURFACE (FT): 15.3
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 12.8
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0-1.6 Brown med-coarse sand, firm, trace silt (silt lense at 0.9')	SD-L22-B-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
				1.6-3.4 light brown fine dense/firm sand	2.0/2.5
					2.5/3.0
					3.0/3.4
2					Portion off surface interval for composite SD-L22-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT):
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'44.542"N
Y-COORDINATE: 87°36'30.453"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L22-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny breezy 55°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mathofer

DATE: 10-28-14 START: 11:00 END:

TOP OF BARGE TO SED SURFACE (FT): 15' 10"

TOP OF BARGE TO WATER (FT): [redacted] 2.5

WATER DEPTH (FT): 13.4

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.1 dark brown, soft & loose fine sandy silt w/ trace organics & wood	SD-L22-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
				1.1-1.5 brown-fine to med sand, trace silt firm	2.5/3.0
					3.0/3.3
2				1.5-3.3 light brown dense fine sand	Portion off surface interval for composite SD-L22-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT):

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'44.374"N

Y-COORDINATE: 87°36'29.972"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L22-D SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny breezy 55°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ ~~macrocore~~ sampler or hand core
LOGGER: Mauhofer
DATE: 10-28-14 START: 11:35 END:

TOP OF BARGE TO SED SURFACE (FT): 13.7
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 11.2
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.6 brown med-coarse sand, firm, trace silt	SD-L22-D-0.0/0.5
				0.6-0.9 silty brown/dk br med-coarse sand, soft & loose	" 0.5/1.0
1					1.0/1.5
					1.5/2.0
					2.0/2.5
				0.9-1.9 brown med-coarse sand, firm, trace silt	2.5/3.0
					3.0/3.5
2					Portion off surface interval for composite SD-L22-0.0/0.5
				1.9-2.8 light brown fine dense sand	
				2.8-3.5 light brown fine dense sand w/ very low plasticity clay, dry to moist	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT):
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'45.116" N
Y-COORDINATE: 87°36'28.637" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L23-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: cloudy, breezy 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathiter
DATE: 10-28-14 START: 12:10 END:

TOP OF BARGE TO SED SURFACE (FT): 15' 6"
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 13.0
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.8 brown med-coarse well graded sand, some silt, firm	SD-L23-A-0.0/0.5
					" 0.5/1.0
					1.0/1.5 archive
1				0.8-2.9 light brown fine dense sand w/ trace low-pl clay	1.5/2.0
					2.0/2.5
					2.5/2.9
					Portion off surface interval for composite run SD-L23-0.0/0.5
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: 11
STAFF GAUGE READING (FT): 1.7
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'43.647"N
Y-COORDINATE: 87° 36'28.855"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L23-B SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: cloudy, windy, 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mayhofer
DATE: 10/28/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 15' 4"
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT):
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	&TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.3 Brown med-coarse sand w/ small gravel + silt, firm	SD-L23-B-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.3-1.9 brown silty fine-med sand, firm, moist	1.5/2.0
					2.0/2.5
					2.5/3.0
2				1.9-2.6 brown med sand, trace silt, firm	Portion off surface interval for composite SD-L23-0.0/0.5
3				2.6-3.0 light brown, firm + dense ~~sa~~ fine sand	
4					
5					

archive

run

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.7
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 43.363" N
Y-COORDINATE: 87° 36' 29.168" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L23-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Cloudy, windy 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Machuter
DATE: 10-28-14 START: 12:50 END:

TOP OF BARGE TO SED SURFACE (FT): 14' 3
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 11.7
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.0 dark brown silt, trace fine sand, soft	SD-L23-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				1.0-~~1.3~~ 1.8 brown med-well graded sand, trace silt, firm	1.5/2.0
					2.0/2.5
					2.5/3.0
				1.8-4.5 light brown fine dense sand	3.0/3.5
2					3.5/4.0
					4.0/4.5
					Portion off surface interval for composite SD-L23-0.0/0.5
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.7
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 42.659" N
Y-COORDINATE: 87° 36' 29.306" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L23-D SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Cloudy, windy 45°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mauhotor
DATE: 10/28/14 START: END:

TOP OF BARGE TO SED SURFACE (FT): 10' 8"
TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 8.3
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.3 black silt, ~~firm~~ soft, some fine sand & ~~trace~~ some wood + organics	SD-L23-D-0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
				1.3-2.2 Brown silt, firm, some fine sand + trace wood & organics	2.0/2.5
					2.5/3.0
2					3.0/3.4
				2.2-3.4 brown med well graded sand w/ some silt & trace wood & organics	Portion off surface interval for composite SD-L23-0.0/0.5
3					
4					
5					

ordinal

MN

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.7
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'41.782" N
Y-COORDINATE: 87°36'29.657" W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L24-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Sunny, windy, 45°F

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Sara Mathoson

DATE: 10/8/14 START: 0945 END: 1030

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

X WATER DEPTH (FT): 3.4'

TOP OF BARGE TO REFUSAL (FT):

X SED THICKNESS TO REFUSAL (FT): 4.0'

DEPTH BELOW SURFACE (FT)	X PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.7 Dark brown silt w/ trace fine sand & wood chips, loose, wet	SD-L24-A-0.0/0.5 SD-L24-A-0.5/1.0 SD-L24-A-1.0/1.5 SD-L24-A-1.5/2.0 SD-L24-A-2.0/2.5 SD-L24-A-2.5/3.0 (archive)
1				0.7-3.0 Brown med-coarse sand, firm, trace silt, trace wood chips, well graded, moist	Portioned out surface interval for SD-L24-0.0/0.5
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1 = 582.26

STAFF GAUGE READING (FT): 2.1' @ 1145am

WATER ELEVATION:

SEDIMENT ELEVATION:

X X-COORDINATE: 45° 05' 44.911 N

X Y-COORDINATE: -87° 36' 23.449 W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L24-B	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: ~~Sn~~ cloudy, windy, 45°F
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER:
DATE: 10/8/14 START: 1100 END: 1130

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.2'
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.2 well graded sand w/ silt, brown, moist, wood chips	SD-L24-B-0.0/0.5 SD-L24-B-0.5/1.0 SD-L24-B-1.0/1.5 SD-L24-B-1.5/2.2 } archive
1				0.2-2.2 Brown, well graded med-coarse sand, trace silt, firm.	Portioned out surface interval for SD-L24-0.0/0.5
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV: T1 = 582.26
STAFF GAUGE READING (FT): 2.1' @ 1145am
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 44.112 N
Y-COORDINATE: 87° 36' 22.322 W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L24-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, windy, 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mayhew

DATE: 10/8/14 START: 1400 END: 1530

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 2.9

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.3 silty sand w/ organics & wood chips, black	SD-L24-C-0.0/0.5
					0.5/1.0
					1.0/1.5
				0.3-2.7 black to dark brown med-coarse sand, firm	1.5/2.0
1					2.0/2.7
					Portioned off surface interval for SD-L24-0.0/0.5
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION:

SEDIMENT ELEVATION:

X X-COORDINATE: 45 05 44.840 N

X Y-COORDINATE: 87 36 22.708 W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L24-D	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
WEATHER: sunny, windy, 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler on hand core
LOGGER: Mathster
DATE: 10/8/14 START: 1510 END: 1630

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
X WATER DEPTH (FT): 3.5
TOP OF BARGE TO REFUSAL (FT):
X SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	X PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0–0.7 silt w/ organics + wood chips brown, loose	SD-L24-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0
1				0.7–1.1 fine-med sand, brown, wet & loose, 10% silt	bottomed off surface interval for SD-L24-0.0/0.5
2				1.1–2.0 coarse sandy brown, firm	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION:
SEDIMENT ELEVATION:

X X-COORDINATE: 45 05 45.025 N
X Y-COORDINATE: 87 36 22.165 W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L24-E

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: sunny, windy 45°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Manhotter

DATE 10/8/14 START: 1500 END: 1720

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

X WATER DEPTH (FT): 4.7

TOP OF BARGE TO REFUSAL (FT):

X SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	X PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.2 dark brown silt w/trace fine sand & organics (loose)	SD-L24-E-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.2-0.4 wood chips	1.5/2.1
				0.4-2.1 dark brown coarse sand, well grades, trace silt, firm	
					Portioned off surface interval for SD-L24-0.0/0.5
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION:

SEDIMENT ELEVATION:

X X-COORDINATE: 45 05 45.059 N

X Y-COORDINATE: 87 36 21.206 W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L25-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, breezy, 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mathofer

DATE: 10/9/14 START: 0800 END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 5.2

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.2 wood chips, black	SD-L25-A-0.0/0.5
				0.2-2.3 dark brown, med-coarse sand w/ trace silt & wood chips	0.5/1.0
					1.0/1.5
					1.5/2.0
1					2.0/2.3
					Portion off surface interval for SD-L25-0.0/0.5 + SD-L25-0.0/0.5-D
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 44.578" N

Y-COORDINATE: 87° 36' 21.178" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L25-B SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, breezy, 50°F
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathofer
DATE: 10/9/14 START: 0830 END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.5' ft
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.2 dark brown sandy silty w/ wood pieces	SD-L25-B-0.0/0.5
					SD-L25-B-0.0/0.5-D
				0.2-2.9 brown well-graded med-grain sand w/ trace silt + trace woody pieces	SD-L25-B-0.5/1.0
1					1.0/1.5
					1.5/2.0
					2.0/2.5
					2.5/2.9
2					Portioned off surface interval for SD-L25-0.0/0.5 & D
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.9
WATER ELEVATION:
SEDIMENT ELEVATION:

1' Recovery on L25-B
Attempted 2nd drive to get more sample

X-COORDINATE: 45° 05' 44.019" N
Y-COORDINATE: 87° 36' 21.646" W

L25B-A 45° 05' 44.057" N
87° 36' 21.670" W

(Use GPS coord L25-B-A)

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L25-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: sunny, breezy, 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler on hand core

LOGGER: Mathofer

DATE: 10/9/14 START: 1000 END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 5.6 ft

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.9 brown well graded med-gr sand w/ trace silt	SD-L25-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
					1.5/2.0
1				1.9-2.1 light brown fine sand w/ silt	2.0/2.7
				2.1-2.7 brown silt w/ fine sand & trace organics firm	Portioned out surface interval for SD-L25-0.0/0.5 + D
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 44.358" N

Y-COORDINATE: 87° 36' 20.355" W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L25-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: sunny, breezy 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mayhew

DATE: 10/9/14 START: 1020 END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 5.1 FT

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.4 Brown well graded fine-med sand w/ trace silt + wood chips silt lense at 1'	SD-L25-D-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.4 archive Partioned off surface interval for SD-L25-0.0/0.5 + D
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 9.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 43.795" N

Y-COORDINATE: 89° 36' 20.676" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L25E	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, breezy, 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahofer
DATE: 10/9/14 START: 1040 END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.1'
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.5 Brown med-coarse sand w/ 10% silt + trace organics firm to soft	SD-L25-E-0.0/0.5
					~~SD-L25-E-0.0/0.~~
					" 0.5/1.0
					1.0/1.5
1				1.5-3.2 Brown fine-med sand, firm to soft	1.5/2.0
					2.0/2.5
					2.5/3.2
2					Portioned of surface interval for SD-L25-0.0/0.5 + D
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.0
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'43.544" N
Y-COORDINATE: 87°36'21.756" W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L26-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, 55°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mahoney

DATE: 10/9/14 START: 1200 END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 4.0 FT

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.8 fine sandy silt w/ organics + wood. Loose + wet, black	SD-L26-A-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				0.8-1.8 silty well-graded (fine-coarse) sand, dark brown	1.5/2.0
					2.0/2.5
					2.5/3.0
					3.0/3.5
2				1.8-2 black wood chips + silt	3.5/3.8
				2-3 brown med silty sand	Portioned off surface interval for SD-L26-0.0/0.5 MS/MSD
3				3.0-3.3 fine sandy silt, dark brown, firm	
				3.3-3.8 fine-med sand, firm, brown	
4					
5					

archive

run MS/MSD

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION: ~~2.2~~

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 43.910" N

Y-COORDINATE: 87° 36' 18.534" W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L26-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, breezy 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mayhofer

DATE: 10/9/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 3.8 FT

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.9 Brown fine-med well graded sand, firm, moist, trace silt	SD-L26-B-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/2.9 } archive Portioned out surface interval for SD-L26-0.0/0.5 MS/MSD } MN
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 42.623" N

Y-COORDINATE: 87° 36' 19.299" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L26-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny 55°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Manhofer
DATE: 10/9/14 START: 1300 END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 5.9
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.9 med-coarse well-graded Sand, brown to dark brown, trace silt, firm	SD-L26-C-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/2.9 Portioned off surface interval for SD-L26-0.0/0.5 MS/MSD
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.2
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 42.526" N
Y-COORDINATE: 87° 36' 17.983" W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L27-A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Markoff

DATE: 10/9/14-10/10 START: 1600 END: 10/10 0800

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 5.2'

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.9 Brown fine to coarse, well graded ~~Sd~~ sand. Trace silt & organics.	SD-L27-A-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
				Silty sand (dark brown) w/ organics lenses at 0.4' + 0.9'	2.5/2.9
2					Portioned out surface interval for SD-L27-0.0/0.5
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 2.1

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 41.880" N

Y-COORDINATE: 87° 36' 15.956" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L27-B SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mathofer
DATE: 10/9/14-10/10 START: 1630 END: 10/10/14 0810

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 2.3
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT): 4.2

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.3 dark brown silty fine sand w/ 50% organics & wood chips	SD-L27-B-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.2
				0.3-2.2 brown fine-med sand, trace silt, trace organics trace coarse sand, loose to firm	Portion off surface interval for SD-L27-0.0/0.5
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 40.794" N
Y-COORDINATE: 87° 36' 16.499" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L27-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, 51°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mallotry
DATE 10/9/14-10/10 START: 1700 END: 10/10 0910

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.9
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.4 fine-med brown sand, loose-firm, trace silt	SD-L27-C-0.0/0.5
					0.5/1.0
					1.0/1.5
					1.5/2.0
1				0.4-0.9 dark brown very loose wet silty fine sand w/ woody chunks	2.0/2.5
					2.5/3.0
					3.0/3.6
2				0.9-3.6 brown med well graded sand, trace silts, woody pieces at 1.8 + 2.1	Partitioned out surface interval for SD-L27-0.0/0.5
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'40.892"N
Y-COORDINATE: 87°36'15.361"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L27-D SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
WEATHER: Sunny 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mailwater
DATE: 10/9/14-10/10 START: 1700 END: 10/10 0900

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.8
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0-2.4 Brown med well ~~grain~~ graded sand, trace silts + wood chips, firm to soft	SD-L27-D-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.4 Portioned off surface interval for SD-L27-0.0/0.5
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 40.361" N
Y-COORDINATE: 87° 36' 13.747" W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L28-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mayhofer

DATE: 10/9/19 START: 1400 END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 3.0 FT

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.1 dark brown silty fine sand w/ 50% wood chips, loose	SD-L28-A-0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
				1.1-2.8 brown silty fine-med sand, firm.	2.0/2.5
					2.5/2.8
				wood @ 0.5-1.6	
2					Portion off surface interval for SD-L28-0.0/0.5
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 2.1

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 38.627" N

Y-COORDINATE: 87° 36' 12.037" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L28-B SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, breezy

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mayhofer

DATE: 10/9/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 4.7

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0-1.3 brown to dark brown silty fine-med sand. Some wood & trace gravel	SD-L28-B-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1					1.5/2.0
				1.3-2.3 dark brown silty med-coarse sand. Some wood	2.0/2.3
					Portioned off surface interval for SD-L28-0.0/0.5
2					
				@2.3 is silt plug @ bottom	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 2.1

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'33.941" N

Y-COORDINATE: 87°36'12.870" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L28-C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, breezy, 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahofer
DATE: 10/9/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 1.8
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.6 silt w/ organics of fine sand soft, dark brown wood chips	SD-L28-C-0.0/0.5 0.5/1.0 1.0/1.6
1				0.6-1.6 brown fine-med sand w/ wood chips	Portioned off surface interval for SD-L28-0.0/0.5
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05' 37.338" N
Y-COORDINATE: 87°36' 11.363" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L28-D SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, breezy 55°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mayhofer
DATE: 10/9/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 3.7
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.9 Brown med-coarse sand, trace silt, trace gravel, firm.	SD-L28-D-0.0/0.5 " 0.5/1.0 1.5/2.0 2.0/2.5 2.5/2.9 Portioned off surface interval for SD-L28-0.0/0.5
1					
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 37.552" N
Y-COORDINATE: 87° 36' 10.059" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L29-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, breezy, 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Manfer
DATE: 10/9/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 3.7
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.8 dark brown fine to coarse sandy, some silt & wood chips, firm	SD-L29-A-0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.7
				0.8-2.7 Brown fine-med sand, trace coarse sand & wood chips trace silt	Portioned off surface interval for SD-L29-0.0/0.5
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'36.017"N
Y-COORDINATE: 87°36'07.550"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L29-B	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, breezy, 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mayhew
DATE: 10/9/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.4
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.7 Brown fine-med sand, firm, trace wood chunks trace silt	SD-L29-B-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.7 Portioned out surface interval for SD-L29-0.0/0.5
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45°05'35.241" N
Y-COORDINATE: 87°36'05.753" W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS

STATION ID L29-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: Sunny, breezy

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Maynter

DATE: 10/7/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 3.9

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.7 silty fine-med sand w/ 25% wood chips, loose	SD-L29-C-0.0/0.5
					0.5/1.0
					1.0/1.5
					1.5/2.0
1				0.7-3.8 Brown to dark brown med-coarse sand, some silt, trace wood, trace small gravel, firm	2.0/2.5
					2.5/3.0
					3.0/3.5
					3.5/3.8
2					Portioned off surface interval for SD-L29-0.0/0.5
				Silt plug at bottom (black, firm)	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 4.1

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'35.932" N

Y-COORDINATE: 87°36'05.889" W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L30-A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny, windy 45°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mayhofer
DATE: 10/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 3.3
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT): 4.2

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.6 silty sand, w/ wood chunks, dark brown	SD-L30-A - 0.0/0.5
					0.5/1.0
					1.0/1.5
1				0.6-1.0 dark brown med-coarse sand w/ silt	1.5/2.0
					2.0/2.3
				1.3	
				1.0-~~1.2~~ wood	
2					
				~~1.2~~	
				~~1.4~~ 2.3 dark brown, coarse sand, some med sand, firm, trace silt	
				1.3	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION:
SEDIMENT ELEVATION:

GPS coord L30-A

X-COORDINATE: 45 05 34.702 N
Y-COORDINATE: 87 36 04.314 W

not L30-A-A

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L30-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: sunny, windy 45°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mallhotes

DATE: 10/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 2.6

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.0-3.4 med-coarse sand w/ trace silt, brown-dark brown, firm	SD-L30-B-0.0/0.5
					0.5/1.0
					1.0/1.5
1					1.5/2.0
					2.0/2.5
				wood at 0.9-1.25	2.5/3.0
2				3.3-3.4	3.0/3.4
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45 05 34.500 N

Y-COORDINATE: 87 34 00.991 W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L30-C 2nd ARIVE SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: sunny, windy, 45°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mahofer
DATE: 10/8/14 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.0
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-2.0 med well-graded brown sand, firm, trace silt + wood chips	SD-L30-C-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0
1					
2					
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION:
SEDIMENT ELEVATION:

1ST ATT 1.4'

GPS coord L30-C-A

X-COORDINATE: 45 05 35.949 N
Y-COORDINATE: 87 36 05.075 W

2nd ATT { 45 05 35.932 N
87 36 04.990 W

Att1_Sediment Log Template.xls

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L31A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: partly sunny, windy 50°F
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER:
DATE: 10/8/14 START: 1130 END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.8
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.2 brown med-coarse sand. firm.	SD-L31-A-0.0/0.5
					SD-L31-A-0.5/1.0
				1.2-1.7 ~~Bro~~ dark brown med-coarse sand w/ silt + wood chips, firm	SD-L31-A-1.0/1.5
					SD-L31-A-1.5/2.0
1					SD-L31-A ~~1.5~~ 2.0/2.7
				1.7-2.6 brown med-coarse sand, firm.	
					Portioned off 0.0/0.5 for SD-L31-0.0/0.5 & SD-L31-0.0/0.5-D
2				2.6-2.7 black wood chips	
3					
4					
5					

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 2.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 33.457 N
Y-COORDINATE: 87° 35' 58.942 W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L31-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: sunny windy 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler on hand core

LOGGER:

DATE: 10/8/14 START: 1200 END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): ~~3.4~~ 4.2

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-1.5 brown med-coarse sand, firm, moist	SD-L31-B-0.0/0.5
					SD-L31-B-0.5/1.0
				1.5-1.7 black wood chips	SD-L31-B-1.0/1.7
1					
					Portioned out
					SD-L31-0.0/0.5
2					+ SD-L31-0.0/0.5-D
3					
4					
5					

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NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 2.1

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 33.349 N

Y-COORDINATE: 87° 35' 58.722 W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID L31-C	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER: Sunny windy 50°
CONTRACTOR: Coleman Engineering
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
LOGGER: Mayhofer
DATE: 10/8/14 START: 1200 END: 1450

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 4.0
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.-1.2 dark brown silt w/ trace sand & organics, loose	SD-L31-C-0.0/0.5
					" 0.5/1.0
					1.0/1.5
1				1.2-1.6 dark brown sand w/ silt & 50% wood	1.5/2.0
					2.0/2.5
					2.5/2.9
				1.6-2.9 brown med-coarse sand, firm	
2					Portion surface interval for SD-L31-0.0/0.5 & D
3					
4					
5					

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NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT): 0.1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 33.119 N
Y-COORDINATE: 87° 35' 57.698 W

CH2MHILL

PROJECT NUMBER: 650184.LP.06.CS

STATION ID: L31-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER: Sunny, windy, 50°

CONTRACTOR: Coleman Engineering

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

LOGGER: Mallhofer

DATE: 10/8/14 START: 1200 END: 1450

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 4.1

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0-0.7 black wood chips + silt, soft	SD-L31-D-0.0/0.5
				0.7-1.3 dark brown to brown silt, trace med-sand, firm	0.5/1.0
1					1.0/1.5
					1.5/2.0
				1.3-2.0 med-sand, dark brown, 20% silt, firm to soft	portioned out surface interval for SD-L31-D-0.0/0.5 of D
2					
3					
4					
5					

archive

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 0.1

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45 05 33.117 N

Y-COORDINATE: 87 35 54.869 W