

ADDENDUM No. 1

ITB No. 4650

DUNMORE, WAVERLY, WELDON, HARTFORD WATER MAIN REPLACEMENT PROJECT

Bids Due: January 5, 2021 at 10:00 A.M. (Local Time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 16 pages.**

Bidder is to acknowledge receipt of this Addendum No. 1, including all attachments (if any) in its Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgment of receipt of this addendum may be considered nonconforming.

The following forms provided within the ITB document should be included in submitted bids:

- City of Ann Arbor Prevailing Wage Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form
- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance

Bids that fail to provide these forms listed above upon bid opening may be rejected as non-responsive and may not be considered for award.

I. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the ITB. Bidders are directed to take note in their review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

Question 1: Will the staking, layout and testing be provided by the City of Ann Arbor?

Answer 1: The staking, layout and testing be provided by the City of Ann Arbor on this project.

Question 2: Will the Owner please provide a current copy of the plan holders list?

Answer 2: An unofficial plan holders list and all available information (inclusive of any issued addenda) can be found through MITN.info and the [City's website](#).

Question 3: Are recent CCTV files available for the existing sewer lines?

Answer 3: Some lines have been recently televised; this information will be available to the contractor.

Question 4: Please verify the quantity / unit of measure for Pay Item 267, "Machine Grading, Modified".

- Answer 4: The unit of measure for Pay Item 267, "Machine Grading, Modified" is SYD. Revised Bid Tab is included in this Addendum.
- Question 5: Are any lead or galvanized water services anticipated to be encountered on this project?
- Answer 5: The Owner will address any lead or galvanized water services. However, they are not anticipated to be encountered on this project.
- Question 6: Please indicate if the City will be utilizing the traditional method of structure adjustment in the paved surfaces, or if adjustment of structures AFTER the wearing course of HMA will be used?
- Answer 6: The City of Ann Arbor will be utilizing the traditional method of structure adjustment in the paved surfaces.
- Question 7: Please provide any and all available soil borings for the project.
- Answer 7: Geotechnical report is included in this Addendum.
- Question 8: Will the Owner please provide the budget for this project?
- Answer 8: The Engineer's Estimate for this project is around 1.1M.
- Question 9: Please clarify that structures covers will be paid for separately and are NOT included in Pay Item 220 "Adjust Structure Cover, Modified".
- Answer 9: The structure covers for the existing structures will be paid for separately and are NOT included in Pay Item 220 "Adjust Structure Cover, Modified". All final adjustments on new structures are included in the associated bit item of work
- Question 10: Will the Owner/Engineer please confirm if there are any prevailing wage requirements for this job?
- Answer 10: The prevailing wage document is included in the Contract Documents.
- Question 11: How will the required Machine Grading, Aggregate Base, HMA Patching and Concrete Replacement (as may be necessary) be paid for in conjunction with the "Temporary Line Stop" pay items?
- Answer 10: They are included in the line stop pay item.
- Question 12: Please clarify if "Subgrade Undercutting, Type II" is to use only CLII sand backfill or 21AA Limestone is allowed?
- Answer 12: The 21AA Limestone is allowed to be used in "Subgrade Undercutting, Type II".
- Question 13: Please clarify if sand subbase inside the trench limits will actually be paid for separately as indicated, or if this material is to be included in the required sand backfill for the various utility items.

Answer 13: The sand subbase will be paid for separately.

Question 14: Please clarify if the required sand subbase and aggregate base for new concrete installations is to be included in the pay items for various concrete items?

Answer 14: The required sand subbase and aggregate base for new concrete installations is to be included in the pay items for various concrete items.

Question 15: Per the cross-section details for Dunmore Rd, Waverly Rd, Weldon Blvd & Hartford St (sheet 8-11), the existing pavement surface is to be cold milled. Is the cold milling work incidental to Machine Grading?

Answer 15: The cold milling work is included in the Pay Item 267, "Machine Grading, Modified".

Question 16: Per the cross-section details for Dunmore Rd, Waverly Rd, Weldon Blvd & Hartford St (sheet 8-11), the existing subgrade beneath the pavement surface (outside of the water main trench areas) is to be regraded and compacted. Can you confirm that the roadway areas outside of the trench areas will not receive a new section of subbase and aggregate base? If a new section of subbase and aggregate base is needed outside of the trench areas, how will the excavation be paid for?

Answer 16: The roadway areas outside of the trench areas will be evaluated and if a new section of subbase and aggregate base is needed it will be paid for per appropriate pay items. Any excavation for the new road base (where required) is to be included in the Pay Item 267, "Machine Grading, Modified".

Question 17: Please clarify the scope of item #882 – Seeding & Mulching? Per the detailed specification, the topsoil, seeding, fertilizing & mulching is incidental to item #213 – Clean-Up & Restoration.

Answer 17: The of Pay Item #882," Seeding & Mulching" is removed, the topsoil, seeding, fertilizing & mulching is included in Pay Item #213," Clean-Up & Restoration". Revised Bid Tab is included in this Addendum.

Bidders are responsible for any conclusions that they may draw from the information contained in the Addendum.

BID FORM

Section 1--Schedule of Prices

Project: DWWH Water Main Replacement Project
 File #: 2018-033 Bid #: 4650

<u>Item</u>	<u>Description</u>	<u>Unit</u>	Estimated		<u>Unit Price</u>	<u>Total Price</u>
			<u>Quantity</u>			
130	Protective Fencing	LF	495		\$ _____	\$ _____
135	Tree Removal (8-inches and larger)	Each	1		\$ _____	\$ _____
140	Exploratory Excavation	Each	5		\$ _____	\$ _____
201	General Conditions, Max. \$50,000	LS	1		\$ _____	\$ _____
202	Project Supervision, Max. \$30,000	LS	1		\$ _____	\$ _____
203	Minor Traffic Control, Max. \$30,000	LS	1		\$ _____	\$ _____
204	Digital Audio Visual Coverage	LS	1		\$ _____	\$ _____
205	Certified Payroll Compliance and Reporting	LS	1		\$ _____	\$ _____
206	"No Parking" Signs	Each	60		\$ _____	\$ _____
207	Type III Lighted Barricade, Furnish & Operate	Each	10		\$ _____	\$ _____
208	42 inch Lighted Channelizing Device, Furn & Op	Each	20		\$ _____	\$ _____
209	Plastic Drum - Lighted, Furnish and Operate	Each	100		\$ _____	\$ _____
210	Temporary Type B Signs	SF	350		\$ _____	\$ _____
211	Solar Arrow Board, Furnish & Operate	Each	2		\$ _____	\$ _____
212	Sidewalk Barricade, Furnish and Operate	Each	20		\$ _____	\$ _____
213	Clean-Up & Restoration, Special, Max \$10,000	LS	1		\$ _____	\$ _____
220	Adjust Structure Cover, Modified	Each	30		\$ _____	\$ _____
221	Structure Covers	LB	12,000		\$ _____	\$ _____
230	Wrapped Underdrain 6 inch	LF	2,500		\$ _____	\$ _____
232	Remove and Replace Sanitary Lead	LF	200		\$ _____	\$ _____
241	Fire Hydrant Assembly Abandonment	Each	3		\$ _____	\$ _____
242	6 inch Temporary Water Main Line Stop	Each	6		\$ _____	\$ _____
244	12 inch Temporary Water Main Line Stop	Each	2		\$ _____	\$ _____
250	Fire Hydrant Assembly, Including 8" x 6" reducer	Each	4		\$ _____	\$ _____
262	Remove Conc Curb or Curb & Gutter, Any Type	LF	2,250		\$ _____	\$ _____
263	Remove Conc Sidewalk, Ramp, Drives, Any Thick	SF	3,114		\$ _____	\$ _____
265	Subgrade Undercutting - Type II	CY	250		\$ _____	\$ _____
267	Machine Grading, Modified	SYD	9,400		\$ _____	\$ _____
268	Sand Subbase Course, Class II - C.I.P	CY	1,000		\$ _____	\$ _____
269	21AA Aggregate Base Course - C.I.P	CY	1,700		\$ _____	\$ _____
270	21AA Limestone - C.I.P	CY	100		\$ _____	\$ _____
275	HMA, LVSP - Pavement Leveling Course	Ton	1,150		\$ _____	\$ _____
TOTAL THIS PAGE (BF-1)						\$ _____

BID FORM

Section 1--Schedule of Prices

Project: DWWH Water Main Replacement Project
 File #: 2018-033 Bid #: 4650

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
276	HMA, LVSP - Pavement Top Course	Ton	1,150	\$ _____	\$ _____
280	Conc Curb or Curb & Gutter, Any Type	LF	1,857	\$ _____	\$ _____
282	4" Concrete Sidewalk	SF	529	\$ _____	\$ _____
283	6" Concrete Sidewalk, Ramp, Drive Approach	SF	486	\$ _____	\$ _____
284	6" Concrete Sidewalk, Ramp, Drive Approach - HE	SF	2,099	\$ _____	\$ _____
285	Concrete Type M Drive Opening, HE	LF	584	\$ _____	\$ _____
287	Detectable Warning, Cast In Place	SF	140	\$ _____	\$ _____
290	Pav Markings, 4" Solid White, Type R	LF	480	\$ _____	\$ _____
291	Pav Markings, Therm, 24" Stop Bar	LF	80	\$ _____	\$ _____
306	6" PVC Storm Sewer Pipe, Trench Detail I	LF	100	\$ _____	\$ _____
307	12" CL IV RCP Storm Sewer Pipe, Trench Detail I	LF	660	\$ _____	\$ _____
367	Single Inlet	Each	24	\$ _____	\$ _____
385	Storm Pipe Abandonment or Removal	LF	700	\$ _____	\$ _____
386	Storm Structure Abandonment or Removal	Each	24	\$ _____	\$ _____
392	Pipe Undercut and Refill (6A)	CY	50	\$ _____	\$ _____
400	6 inch, Class 50 DIP w/polywrap, Trench Detail I	LF	15	\$ _____	\$ _____
401	8 inch, Class 50 DIP w/polywrap, Trench Detail I	LF	2,355	\$ _____	\$ _____
402	12 inch Class 50 DIP w/polywrap, Trench Detail I	LF	10	\$ _____	\$ _____
410	8" 90° Bend	Each	1	\$ _____	\$ _____
411	8" 45° Bend	Each	6	\$ _____	\$ _____
412	8" 22 1/2° Bend	Each	7	\$ _____	\$ _____
413	8" 11 1/4° Bend	Each	4	\$ _____	\$ _____
417	8" x 6" Reducer	Each	2	\$ _____	\$ _____
418	8" x 8" x 8" Tee	Each	11	\$ _____	\$ _____
419	12" x 12" x 12" Tee	Each	1	\$ _____	\$ _____
420	12" x 8" Reducer	Each	1	\$ _____	\$ _____
446	8" Gate Valve-in Well	Each	7	\$ _____	\$ _____
460	Exc & Backfill for Water Service Tap and Lead	LF	1,000	\$ _____	\$ _____
481	Water Main Pipe Abandonment	LF	2,400	\$ _____	\$ _____
482	Gate Valve in Box Abandonment or Removal	Each	4	\$ _____	\$ _____
483	Gate Valve in Well Abandonment or Removal	Each	2	\$ _____	\$ _____
567	Adjust Monument Box or Gate Valve Box	Each	4	\$ _____	\$ _____
702	Inlet Filter	Each	24	\$ _____	\$ _____
703	Silt Fence	LF	2,500	\$ _____	\$ _____
TOTAL THIS PAGE (BF-2)					\$ _____
TOTAL FROM PAGE BF-1:					\$ _____
TOTAL BASE BID:					\$ _____



B-7

B-8

B-9

B-10

B-11

B-13

B-12

X Not a requested location

Las Vegas Park

Greenview

Greenview

Solon Church Rd

W Stadium Blvd

Weldon Blvd

Weldon Blvd

Waverly Rd

Dunmore Rd

Sanford Pl

Hanover Rd

Winsted Blvd

Hanover St

Avondale Ave

Glen Laver Rd

Normandy Rd

Barnard Rd

Hanover Ct

Palmac Dr

Las Vegas Dr

Granada Ave

Catalina Ave

Winsted Ave

Maywood Ave

Main Ave

Kirkland Dr

Woodland Dr

Romyrside Blvd

Barrington Pl

Glasbury Rd

Windsor Dr

Concord Rd

Brampton Ct

Winsted Blvd

Winsted Blvd

Winsted Blvd

7th St

Winsted Blvd

Winsted Blvd

Winsted Blvd

Greenview Dr

Seventh St



TTL Associates, Inc.
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BORING NUMBER Weldon B-7

CLIENT City of Ann Arbor	PROJECT NAME Geotechnical Bundle #2
PROJECT NUMBER 1504703	PROJECT LOCATION Ann Arbor, MI
DRILLING CONTRACTOR TTL Associates TB MB	RIG NO. 844 GROUND ELEVATION
DRILLING METHOD Pavement Coring with 3 in. SSA	GROUND WATER LEVELS:
DATE STARTED 1/3/19 COMPLETED 1/3/19	AT TIME OF DRILLING None
LOGGED BY KKC CHECKED BY KCH	AT END OF DRILLING None
NOTES 1814 Weldon	0hrs AFTER DRILLING Backfilled w/Cuttings, Chips, and Patch

ELEVATION (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	UNCONF. COMP. STR. (tsf)	DRY UNIT WT. (pcf)	PL MC LL			
									20	40	60	80
0.0			ASPHALT - 4.75 Inches									
			Moist Loose Brown SILTY SAND w/Gravel (SM)	SS 1	100	9-6-4 (10)	NP					
	2.5		Moist Stiff Gray/Brown LEAN CLAY w/Sand and Trace Gravel (CL)	SS 2	100	4-6-9 (15)	2.25					
			@3.5': Brown	SS 3	100	4-6-7 (13)	>4.5					
	5.0		@6': Very Stiff, Gray/Brown	SS 4	100	9-13-16 (29)	2.50					
	7.5		@8': Dark Brown	SS 5	100	5-8-13 (21)	>4.5					
	10.0		Bottom of hole at 10.0 feet.									

TTL_GEOTECH_STANDARD_1504703.GPJ_GINT_US LAB.GDT 3/22/19



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BORING NUMBER Waverly B-8

CLIENT City of Ann Arbor	PROJECT NAME Geotechnical Bundle #2
PROJECT NUMBER 1504703	PROJECT LOCATION Ann Arbor, MI
DRILLING CONTRACTOR TTL Associates TB MB	RIG NO. 844 GROUND ELEVATION
DRILLING METHOD Pavement Coring with 3 in. SSA	GROUND WATER LEVELS:
DATE STARTED 1/3/19 COMPLETED 1/3/19	AT TIME OF DRILLING None
LOGGED BY KKC CHECKED BY KCH	AT END OF DRILLING None
NOTES 1706 Waverly	0hrs AFTER DRILLING Backfilled w/Cuttings, Chips, and Patch

ELEVATION (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	UNCONF. COMP. STR. (tsf)	DRY UNIT WT. (pcf)	PL MC LL			
									20	40	60	80
0.0			ASPHALT - 3.75 Inches									
			Moist Loose Dark Brown SILTY SAND w/Gravel (SM)	SS 1	100	6-4-4 (8)	NP					
	2.5		Moist Stiff Gray LEAN CLAY w/Sand and Trace Gravel (CL)	SS 2	100	4-5-5 (10)	4.25					▲
	5.0		@6': Very Stiff, Gray/Brown	SS 3	100	3-5-7 (12)	4.50					▲
	7.5			SS 4	100	6-9-13 (22)	4.50					▲
	10.0		Moist Stiff Gray SILT w/Trace Sand (ML)	SS 5	100	4-6-7 (13)	2.25					▲
			Bottom of hole at 10.0 feet.									

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BORING NUMBER Waverly B-9

CLIENT City of Ann Arbor	PROJECT NAME Geotechnical Bundle #2
PROJECT NUMBER 1504703	PROJECT LOCATION Ann Arbor, MI
DRILLING CONTRACTOR TTL Associates TB MB	RIG NO. 844 GROUND ELEVATION
DRILLING METHOD Pavement Coring with 3 in. SSA	GROUND WATER LEVELS:
DATE STARTED 1/3/19 COMPLETED 1/3/19	AT TIME OF DRILLING None
LOGGED BY KKC CHECKED BY KCH	AT END OF DRILLING None
NOTES 1732 Waverly	0hrs AFTER DRILLING Backfilled w/Cuttings, Chips, and Patch

ELEVATION (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	UNCONF. COMP. STR. (tsf)	DRY UNIT WT. (pcf)	PL MC LL			
									20	40	60	80
0.0			ASPHALT - 3.5 Inches									
			Moist Loose Black/Brown SILTY SAND w/Gravel and Trace Organics (SM)	SS 1	67	5-4-2 (6)	NP					
	2.5		Moist Stiff Brown LEAN CLAY w/Sand and Trace Gravel (CL)	SS 2	100	3-5-8 (13)	4.50					
			@3': Very Stiff	SS 3	100	4-8-11 (19)	4.50					
	5.0		Moist Hard Brown LEAN CLAY w/Sand and Trace Gravel (CL)	SS 4	100	12-15-17 (32)	4.50					
	7.5		Moist Stiff Brown LEAN CLAY w/Sand and Gravel (CL)	SS 5	100	3-4-6 (10)	4.50					
	10.0		Bottom of hole at 10.0 feet.									

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BORING NUMBER Dunmore B-10

CLIENT City of Ann Arbor	PROJECT NAME Geotechnical Bundle #2
PROJECT NUMBER 1504703	PROJECT LOCATION Ann Arbor, MI
DRILLING CONTRACTOR TTL Associates TB MB	RIG NO. 844 GROUND ELEVATION
DRILLING METHOD Pavement Coring with 3 in. SSA	GROUND WATER LEVELS:
DATE STARTED 1/3/19 COMPLETED 1/3/19	AT TIME OF DRILLING None
LOGGED BY KKC CHECKED BY KCH	AT END OF DRILLING None
NOTES 1815 Dunmore	0hrs AFTER DRILLING Backfilled w/Cuttings and Patch

ELEVATION (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	UNCONF. COMP. STR. (tsf)	DRY UNIT WT. (pcf)	PL MC LL			
									20	40	60	80
	0.0		ASPHALT - 4 Inches									
			CRUSHED STONE - 12 Inches									
			Moist Medium Stiff Brown LEAN CLAY w/Sand and Gravel (CL)	SS 1	67	3-3-5 (8)	3.25					11
	2.5		Moist Very Stiff Dark Brown LEAN CLAY w/Sand and Trace Gravel (CL)	SS 2	100	4-8-10 (18)	4.50					16
			@4': Stiff, Brown	SS 3	100	3-4-7 (11)	4.50					16
	5.0		@6': Very Stiff	SS 4	100	8-10-13 (23)	4.50					16
	7.5		@8': Auger Refusal									
			Bottom of hole at 8.0 feet.									

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BORING NUMBER Hartford B-11

CLIENT City of Ann Arbor	PROJECT NAME Geotechnical Bundle #2
PROJECT NUMBER 1504703	PROJECT LOCATION Ann Arbor, MI
DRILLING CONTRACTOR TTL Associates TB MB	RIG NO. 844 GROUND ELEVATION
DRILLING METHOD Pavement Coring with 3 in. SSA	GROUND WATER LEVELS:
DATE STARTED 1/3/19 COMPLETED 1/3/19	AT TIME OF DRILLING None
LOGGED BY KKC CHECKED BY KCH	AT END OF DRILLING None
NOTES Hartford	0hrs AFTER DRILLING Backfilled w/Cuttings and Patch

ELEVATION (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	UNCONF. COMP. STR. (tsf)	DRY UNIT WT. (pcf)	PL MC LL				
									20	40	60	80	
0.0			ASPHALT - 5 Inches										
			CRUSHED STONE - 4.25 Inches										
			Moist Medium Dense Brown POORLY GRADED SAND w/Trace Gravel and Silt (SP)	SS 1	100	7-8-8 (16)	NP						
			Moist Loose Brown POORLY GRADED SAND w/Clay and Trace Gravel (SP/SC)	SS 2	100	4-4-4 (8)	NP						
			Moist Stiff Brown LEAN CLAY w/Sand and Trace Gravel (CL)	SS 3	100	3-6-9 (15)	4.50						
			@6': Very Stiff	SS 4	100	9-12-14 (26)	4.50						
			Moist Hard Gray/Brown LEAN CLAY w/Sand and Trace Gravel (CL)	SS 5	100	9-12-20 (32)	4.50						
			Bottom of hole at 10.0 feet.										

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BORING NUMBER Dunmore B-14

CLIENT City of Ann Arbor	PROJECT NAME Geotechnical Bundle #2
PROJECT NUMBER 1504703	PROJECT LOCATION Ann Arbor, MI
DRILLING CONTRACTOR TTL Associates TB MB	RIG NO. 844 GROUND ELEVATION
DRILLING METHOD Pavement Coring with 3 in. SSA	GROUND WATER LEVELS:
DATE STARTED 1/3/19 COMPLETED 1/3/19	AT TIME OF DRILLING None
LOGGED BY KKC CHECKED BY KCH	AT END OF DRILLING None
NOTES 1715 Dunmore	0hrs AFTER DRILLING Backfilled w/Cuttings, Chips, and Patch

ELEVATION (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	UNCONF. COMP. STR. (tsf)	DRY UNIT WT. (pcf)	PL MC LL			
									20	40	60	80
0.0			ASPHALT - 6.5 Inches									
			CRUSHED STONE - 5.75 Inches									
	0.5'											
	1.0'		Moist Loose Brown SILTY SAND w/Trace Gravel (SM)	SS 1	67	5-4-3 (7)	NP					
	2.0'											
2.5			Moist Stiff Gray LEAN CLAY w/Trace Sand and Gravel (CL)	SS 2	100	3-4-6 (10)	3.50					21
5.0				SS 3	100	4-5-7 (12)	4.50					16
7.5			@6': Very Stiff, Brown, w/Sand	SS 4	100	7-10-12 (22)	4.50					16
10.0				SS 5	100	4-6-11 (17)	4.50					13
			Bottom of hole at 10.0 feet.									

CORE LOG

Project: Geotechnical Bundle #2

TTL Project No. 1504703



Core Dates: December 27, 2018 through January 7, 2019

1715 Dunmore B-14		1814 Weldon B-7	
			
Core Thickness	6½ inches	Core Thickness	4 inches (Measured 4¾ inches along corehole sidewall)



CORE LOG

Project: Geotechnical Bundle #2
 TTL Project No. 1504703
 Core Dates: December 27, 2018 through January 7, 2019

1706 Waverly B-9		1706 Waverly B-8	
			
Core Thickness	3½ inches (Measured 3¾ inches along corehole sidewall)	Core Thickness	3½ inches





CORE LOG

Project: Geotechnical Bundle #2

TTL Project No. 1504703

Core Dates: December 27, 2018 through January 7, 2019

1405 Maywood B-13		1815 Dunmore B-10	
			
Core Thickness	3¾ inches (Measured 4 inches along corehole sidewall)	Core Thickness	4¾ inches



CORE LOG

Project: Geotechnical Bundle #2

TTL Project No. 1504703

Core Dates: December 27, 2018 through January 7, 2019

Hartford B-11		1509 Maywood B-12	
Core Thickness	5 inches	Core Thickness	3½ inches