

TECHNICAL MEMORANDUM

To:	Nevada Environmental Response Trust
Cc:	Nevada Division of Environmental Protection United States Environmental Protection Agency
From:	Chris Hayes and Dana Grady
Date:	November 22, 2024
Subject:	Unit 4 Source Area In-Situ Bioremediation Treatability Study Monthly Progress Report

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum to summarize Tetra Tech's progress during October 2024 toward successfully implementing the Unit 4 Source Area In-Situ Bioremediation (ISB) Treatability Study.

Task Progress Update: October 2024

Task M21 - Unit 4 Source Area ISB Treatability Study

- Current Status
 - Operations and maintenance activities for Phase 2 of the Unit 4 Source Area ISB Treatability Study began on September 8, 2022 and were completed on April 9, 2024. The treatability study, which was divided into two areas denoted as Area 1 and Area 2, was implemented in phases. For Area 1, the first phase began on September 8, 2022 and consisted of a total dissolved solids (TDS) reduction period to reduce the TDS concentrations in Area 1 deep below the TDS goal of 21,000 mg/L. The second phase for Area 1, which included carbon substrate injections for application of ISB into Area 1 intermediate and deep zones, was initiated on April 6, 2023. For Area 2, an initial TDS-reduction phase was not required. As a result, carbon substrate injections for application of ISB into Area 2 intermediate and deep zones was performed for the entire duration of treatability study operations from September 2022 to April 2024. Following system shutdown, system decommissioning activities were completed in May 2024. A layout map and construction details of all injection, monitoring, and extraction wells are provided on **Figure 1** and in **Table 1**, respectively.
 - Following system shut down in April 2024, the treatability study transitioned into the post-treatment evaluation phase to assess long-term changes in contaminant concentrations and geochemical conditions following system shut down. The post-treatment effectiveness monitoring program consisted of two quarterly sampling events. The first post-treatment effectiveness monitoring event was conducted from June 10 through June 20, 2024, with the results presented in the previous August 2024 monthly progress report. The second and final post-treatment effectiveness monitoring event was conducted from September 18 through September 27, 2024.

Results for the September 2024 sampling event will be provided in a future monthly progress report as data become available.

- Schedule and Progress Updates
 - The final quarterly post-treatment effectiveness monitoring event was performed in September 2024 in accordance with the Work Plan Addendum. All field activities have been completed.
- Health and Safety
 - o There were no health and safety incidents related to Task M21 in October 2024.

CERTIFICATION

Unit 4 Source Area In-Situ Bioremediation Treatability Study Monthly Progress Report

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Signature: capacity as President of the Nevada Environmental Response Trust Trustee Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada
Environmental Response Trust Trustee Title: Solely as President and not individually
Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee
Date:

CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided:

Prepared Unit 4 Source Area In-Situ Bioremediation Treatability Study Monthly Progress Report.

Christopher Hayes, CEM

Environmental Engineer

Tetra Tech, Inc.

November 22, 2024

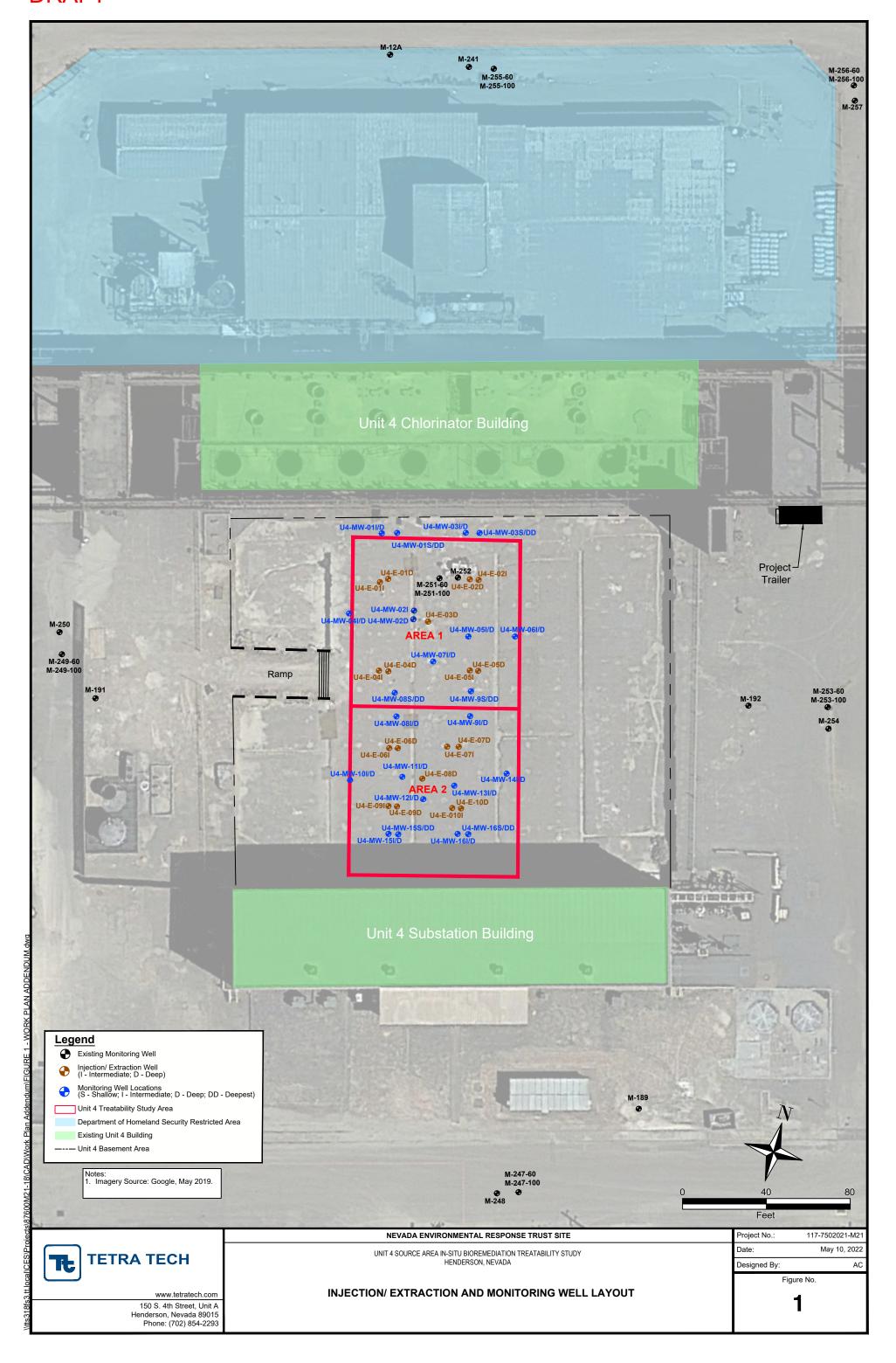
Date

Nevada CEM Certificate Number: EM2499

Nevada CEM Expiration Date: December 15, 2024

Figure

DRAFT



Table

Table 1 Well Construction Details

Unit 4 Source Area In-Situ Bioremediation Treatability Study

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26717288.51 26717295.64 26717295.15 26717253.44 26717252.90 26717255.84 26717255.84 26717255.92 26717225.46 26717225.45 26717225.45 26717225.45 26717225.46 26717325.35 26717353.51 26717353.52 26717353.52 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53 26717353.53	828217.91 828264.86 828260.95 828232.43 828228.29 828261.02 828255.56 828246.11 828232.18 828262.34 828262.34 828209.51 828209.51 828209.25 828216.42 828216.47 828230.17 828230.17 828230.17 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.64 1805.48 1805.48 1805.58 1805.44 1805.47 1805.62 1805.45 1805.45 1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.57 1805.66 1805.47	1805.03 1804.95 1804.72 1804.74 1805.04 1805.31 1805.16 1804.91 1805.14 1805.28 1805.37 1805.14 1805.20 1805.00 1805.00 1805.07 1805.07 1805.07	Single Dual-Nested Single Single Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 8 8 8 8 8 8 8 8	92.0 115.0 92.0 112.0 92.5 111.5 92.0 120.0 112.0 93.3 112.0 92.0	4 4 4 4 4 4 4 4 4 4 4 4 4 2	15 15 15 15 15 15 15 15 15 15 15 15 15 1	90.3 110.3 90.3 111.1 89.2 110.6 90.7 110.6 110.5 90.9 110.5 90.2 86.7	75.0 95.0 75.0 110.1 88.2 109.6 89.7 109.6 109.5 89.9 109.5 89.2 86.7	90.0 110.0 90.0 95.1 73.2 94.6 74.7 94.6 94.5 74.9 94.5
26717295.64 26717295.15 26717253.44 26717252.90 26717258.48 26717257.68 26717255.46 26717225.46 26717225.46 26717229.15 26717353.55 26717354.86 26717315.33 26717315.33 26717313.36 2671736.84 2671736.84 2671736.84 26717313.36 26717313.36	828264.86 828260.95 828232.43 828228.29 828261.02 828255.56 828246.11 828236.22 828232.18 828266.50 828262.34 828209.51 828209.25 828216.42 828216.87 828230.47 828230.47 828230.17 828230.17 828230.17 828248.76 828249.20 828255.35 828255.62	1805.48 1805.58 1805.58 1805.44 1805.47 1805.62 1805.62 1805.45 1805.45 1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.57 1805.57 1805.56	1804.95 1804.72 1804.74 1805.04 1805.31 1805.16 1804.91 1805.14 1805.28 1805.37 1805.14 1805.20 1805.00 1805.00 1805.07 1805.07 1805.17 1805.18	Single Dual-Nested Single Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 8 8 8 8 8 8 8 8	115.0 92.0 112.0 92.5 111.5 92.0 120.0 112.0 93.3 112.0 92.0	4 4 4 4 4 4 4 4 4 4 4 4 2	15 15 15 15 15 15 15 15 15 15 15 15 15 1	110.3 90.3 111.1 89.2 110.6 90.7 110.6 110.5 90.9 110.5 90.9	95.0 75.0 110.1 88.2 109.6 89.7 109.6 109.5 89.9 109.5 89.2 86.7	110.0 90.0 95.1 73.2 94.6 74.7 94.6 94.5 74.9 94.5 74.2
26717295.15 26717253.44 26717253.44 26717253.44 26717257.66 26717275.62 26717225.46 26717225.46 26717225.46 2671729.55 26717353.55 26717353.51 26717354.86 26717315.33 26717313.30 26717313.30 26717313.30	828260.95 828232.43 828228.29 828261.02 828255.56 828246.11 828236.22 828232.18 828266.50 828262.34 828209.51 828209.25 828216.42 828216.87 828230.17 828230.17 828230.17 828230.17 828248.76 828249.20 828255.35 828255.62	1805.58 1805.44 1805.47 1805.62 1805.62 1805.45 1805.45 1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.57 1805.61 1805.61	1804.72 1804.74 1805.04 1805.31 1805.16 1804.91 1805.14 1805.28 1805.37 1805.14 1805.10 1805.02 1805.02 1805.07 1805.07 1805.07	Single Dual-Nested Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 8 8 8 8 8 8	92.0 112.0 92.5 111.5 92.0 120.0 112.0 93.3 112.0 92.0	4 4 4 4 4 4 4 4 4 4 2	15 15 15 15 15 15 15 15 15 15 15 15 15	90.3 111.1 89.2 110.6 90.7 110.6 110.5 90.9 110.5 90.2 86.7	75.0 110.1 88.2 109.6 89.7 109.6 109.5 89.9 109.5 89.2 86.7	90.0 95.1 73.2 94.6 74.7 94.6 94.5 74.9 94.5 74.9
26717252.90 26717258.48 26717259.22 26717225.92 26717225.92 26717225.16 26717229.15 2671729.15 26717353.59 26717354.83 26717354.83 26717315.33 26717319.45 26717360.79 26717360.79 26717360.84 26717313.50 26717313.50 26717313.50	828228.29 828261.02 828255.56 828246.11 828236.22 828232.18 828266.50 828262.34 828209.51 828209.25 828216.42 828216.87 828230.47 828230.17 828230.17 828230.51 828230.17	1805.47 1805.62 1805.62 1805.45 1805.45 1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.66 1805.71 1805.66 1805.61 1805.61	1804.74 1805.04 1805.31 1805.16 1804.91 1804.91 1805.14 1805.28 1805.37 1805.14 1805.10 1805.02 1805.02 1805.07 1805.07 1805.07	Single Single Single Single Single Single Single Single Single Dual-Nested Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 8 8 8 8 8	92.5 111.5 92.0 120.0 112.0 93.3 112.0 92.0	4 4 4 4 4 4 4 4 2	15 15 15 15 15 15 15 15 15 15 15	89.2 110.6 90.7 110.6 110.5 90.9 110.5 90.2 86.7	88.2 109.6 89.7 109.6 109.5 89.9 109.5 89.2 86.7	95.1 73.2 94.6 74.7 94.6 94.5 74.9 94.5 74.2
26717258.48 26717257.68 26717225.92 26717225.92 26717225.40 26717229.58 26717229.15 26717353.59 26717354.83 26717354.83 26717319.48 26717360.84 26717360.84 26717313.50 26717313.50 26717313.50	828261.02 828255.56 828246.11 828236.22 828232.18 828266.50 828262.34 828209.51 828209.25 828216.42 828216.87 828230.47 828230.17 828230.17 828230.5 828230.17 828230.17	1805.62 1805.62 1805.45 1805.45 1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.61 1805.61 1805.61	1805.31 1805.16 1804.91 1804.91 1805.14 1805.28 1805.37 1805.14 1805.10 1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Single Single Single Single Single Single Single Single Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 8 8 8 8	111.5 92.0 120.0 112.0 93.3 112.0 92.0	4 4 4 4 4 4 4 2	15 15 15 15 15 15 15 15	110.6 90.7 110.6 110.5 90.9 110.5 90.2 86.7	109.6 89.7 109.6 109.5 89.9 109.5 89.2 86.7	94.6 74.7 94.6 94.5 74.9 94.5 74.2
26717257.68 26717240.82 26717225.46 26717225.46 26717229.55 26717229.15 26717353.59 26717354.83 26717354.86 26717359.78 26717359.78 26717360.84 26717360.84 26717313.50 26717313.50 26717313.50	828255.56 828246.11 828236.22 828232.18 828266.50 828262.34 828209.51 828209.25 828216.42 828216.42 828216.47 828230.47 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.62 1805.45 1805.45 1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.61 1805.61 1805.66	1805.16 1804.91 1804.91 1805.14 1805.28 1805.37 1805.14 1805.10 1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Single Single Single Single Single Single Single Dual-Nested Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 8 8 8	92.0 120.0 112.0 93.3 112.0 92.0	4 4 4 4 4 4 2	15 15 15 15 15 15 15	90.7 110.6 110.5 90.9 110.5 90.2 86.7	89.7 109.6 109.5 89.9 109.5 89.2 86.7	74.7 94.6 94.5 74.9 94.5 74.2
26717240.82 26717225.92 26717229.52 26717229.52 26717229.15 26717353.52 26717354.83 26717354.83 26717359.75 26717359.75 26717360.01 26717360.02 26717360.03 26717360.03 26717360.03 26717313.50 26717313.50	828246.11 828236.22 828232.18 828266.50 828262.34 828209.51 828209.25 828216.42 828216.87 828230.17 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.45 1805.45 1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.61 1805.61 1805.66	1804.91 1804.91 1805.14 1805.28 1805.37 1805.14 1805.10 1805.02 1805.02 1805.07 1805.07 1805.07 1805.17	Single Single Single Single Single Single Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 8 8	120.0 112.0 93.3 112.0 92.0	4 4 4 4 4 2	15 15 15 15 15 15	110.6 110.5 90.9 110.5 90.2 86.7	109.6 109.5 89.9 109.5 89.2 86.7	94.6 94.5 74.9 94.5 74.2
26717225.92 26717225.46 26717229.15 26717229.15 26717353.55 26717354.83 26717354.86 26717315.33 26717319.45 26717360.01 26717360.07 26717360.82 26717313.50 26717313.50	828236.22 828232.18 828266.50 828262.34 828209.51 828209.25 828216.42 828216.87 828230.47 828230.17 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.45 1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.50 1805.47 1805.61 1805.61	1804.91 1805.14 1805.28 1805.37 1805.14 1805.10 1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Single Single Single Single Single Dual-Nested Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 8 8	112.0 93.3 112.0 92.0	4 4 4 4 2	15 15 15 15 10	110.5 90.9 110.5 90.2 86.7	109.5 89.9 109.5 89.2 86.7	94.5 74.9 94.5 74.2
26717225.46 26717229.15 2671729.15 26717353.5 26717354.83 26717354.86 26717315.33 26717319.45 26717360.01 26717360.01 26717360.15 26717360.25 26717313.50 26717313.50 26717313.50	828232.18 828266.50 828262.34 828209.51 828209.25 828216.42 828216.87 828230.47 828230.17 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.47 1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.50 1805.47 1805.61 1805.61 1805.56	1805.14 1805.28 1805.37 1805.14 1805.10 1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Single Single Single Dual-Nested Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16 #2/16	8 8 8 11	93.3 112.0 92.0	4 4 4 2	15 15 15 10	90.9 110.5 90.2 86.7	89.9 109.5 89.2 86.7	74.9 94.5 74.2
26717229.55 26717229.15 26717353.55 26717353.51 26717354.86 26717315.33 26717319.45 26717319.45 26717360.79 26717360.79 26717360.84 26717313.50 26717313.50 26717313.50	828266.50 828262.34 828209.51 828209.25 828216.42 828216.87 828230.47 828230.17 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.66 1805.71 1805.57 1805.57 1805.57 1805.57 1805.57 1805.50 1805.47 1805.61 1805.61 1805.56	1805.28 1805.37 1805.14 1805.10 1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Single Single Dual-Nested Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel	0.010 0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16 #2/16	8 8 11	112.0 92.0	4 4 2	15 15 10	110.5 90.2 86.7	109.5 89.2 86.7	94.5 74.2
26717229.15 26717353.55 26717353.51 26717354.86 26717315.33 26717319.45 26717319.45 26717360.79 26717360.79 26717360.84 26717313.50 26717313.50 26717311.15	828262.34 828209.51 828209.25 828216.42 828216.87 828230.47 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.71 1805.57 1805.57 1805.57 1805.57 1805.50 1805.50 1805.61 1805.61 1805.66 1805.56	1805.37 1805.14 1805.10 1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Single Dual-Nested Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel Stainless Steel Stainless Steel Stainless Steel Stainless Steel	0.010 0.010 0.010 0.010	#2/16 #2/16 #2/16	8 11	92.0	4 2	15 10	90.2 86.7	89.2 86.7	74.2
26717353.59 26717354.83 26717354.86 26717354.86 26717315.33 26717319.45 26717359.79 26717360.01 26717360.84 26717313.50 26717313.50	828209.51 828209.25 828216.42 828216.87 828230.47 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.57 1805.57 1805.57 1805.57 1805.57 1805.50 1805.47 1805.61 1805.61 1805.56	1805.14 1805.10 1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Dual-Nested Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel Stainless Steel Stainless Steel Stainless Steel	0.010 0.010 0.010	#2/16 #2/16	11		2	10	86.7	86.7	_
26717353.51 26717354.83 26717354.86 26717319.45 26717319.45 26717359.75 26717360.01 26717360.84 26717313.50 26717313.36	828209.25 828216.42 828216.87 828230.47 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.57 1805.57 1805.57 1805.50 1805.47 1805.61 1805.61 1805.56	1805.10 1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Dual-Nested Single Single	Schedule 80 PVC	Stainless Steel Stainless Steel Stainless Steel	0.010 0.010	#2/16		108.0					
26717354.83 26717354.86 26717315.33 26717319.45 26717359.75 26717360.01 26717360.84 26717313.50 26717313.36 26717311.18	828216.42 828216.87 828230.47 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.57 1805.57 1805.50 1805.47 1805.61 1805.61 1805.56 1805.56	1805.02 1805.09 1805.07 1805.07 1805.17 1805.18	Single Single	Schedule 80 PVC Schedule 80 PVC Schedule 80 PVC Schedule 80 PVC	Stainless Steel Stainless Steel	0.010			+					96.7
26717354.86 26717315.33 26717319.45 26717359.79 26717360.01 26717360.79 26717360.84 26717313.50 26717311.18	828216.87 828230.47 828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.57 1805.50 1805.47 1805.61 1805.61 1805.56 1805.56	1805.09 1805.07 1805.07 1805.17 1805.18	Single Single	Schedule 80 PVC Schedule 80 PVC Schedule 80 PVC	Stainless Steel		., _,			2	10	64.7	64.7	54.7
26717319.45 26717359.75 26717360.01 26717360.75 26717360.84 26717313.50 26717311.18	828230.17 828248.76 828249.20 828255.35 828255.62 828199.89	1805.47 1805.61 1805.61 1805.56 1805.56	1805.07 1805.17 1805.18	Single	Schedule 80 PVC	Stainless Steel		#2/16	11	131.0	2	10	129.9	129.9	119.9
26717359.79 26717360.01 26717360.79 26717360.84 26717313.50 26717313.36 26717311.18	828248.76 828249.20 828255.35 828255.62 828199.89	1805.61 1805.61 1805.56 1805.56	1805.17 1805.18				0.010	#2/16	8	115.0	4	15	110.3	95.0	110.0
26717360.01 26717360.79 26717360.84 26717313.50 26717313.36 26717311.18	828249.20 828255.35 828255.62 828199.89	1805.61 1805.56 1805.56	1805.18	Dual-Nested	Caba -11- 00 DV0	Stainless Steel	0.010	#2/16	8	92.0	4	15	90.3	75.0	90.0
26717360.79 26717360.84 26717313.50 26717313.36 26717311.18	828255.35 828255.62 828199.89	1805.56 1805.56		Duai Hootoa	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.3	2	10	86.6	86.6	76.6
26717360.84 26717313.50 26717313.36 26717311.18	828255.62 828199.89	1805.56	1805 19		Schedule 80 PVC	Stainless Steel	0.010	#2/16		100.0	2	10	106.6	106.6	96.6
26717313.50 26717313.36 26717311.18	828199.89			Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	131.3	2	10	64.5	64.5	54.5
26717313.36 26717311.18		1005 10	1805.20	2 441 1100104	Schedule 80 PVC	Stainless Steel	0.010	#2/16		.00	2	10	129.7	129.7	119.7
26717311.18	828199.55	1805.49	1805.13	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.5	2	10	86.8	86.8	76.8
	00000=====	1805.49	1805.15		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	107.0	107.0	97.0
	828257.53	1805.52	1805.06	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.0	2	10	86.6	86.6	76.6
26717311.18 26717314.46	828257.89 828279.53	1805.52 1805.52	1805.05		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	108.2	108.2	98.2
26717314.46	828279.82	1805.52	1805.21 1805.20	Dual-Nested	Schedule 80 PVC Schedule 80 PVC	Stainless Steel Stainless Steel	0.010 0.010	#2/16 #2/16	11	108.3	2	10 10	86.5 107.1	86.5	76.5
26717296.98	828242.85	1805.36	1805.16		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	86.8	107.1 86.8	97.1 76.8
26717296.68	828242.80	1805.36	1805.01	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.2	2	10	106.5	106.5	96.5
26717268.25	828229.36	1805.45	1804.97		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	88.0	88.0	78.0
26717268.30	828229.62	1805.45	1804.99	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.0	2	10	108.6	108.6	98.6
26717279.33	828226.78	1805.47	1804.94	5 111 1	Schedule 80 PVC	Stainless Steel	0.010	#2/16	44	101.0	2	10	64.9	64.9	54.9
26717279.35	828227.22	1805.47	1804.95	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	131.2	2	10	129.8	129.8	119.8
26717273.70	828264.04	1805.62	1805.22	Dual Nastad	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.0	2	10	86.8	86.8	76.8
	828264.40	1805.62	1805.20	Dual-Nesteu	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	100.0	2	10	106.9	106.9	96.9
				Dual-Nested		Stainless Steel	0.010		11	132.0	2	10	65.3		55.3
				Buai Hoolog		Stainless Steel			• • • • • • • • • • • • • • • • • • • •	102.0					119.8
				Dual-Nested					11	109.0					77.1
_															96.9
				Dual-Nested					11	109.0					77.0
															97.4
				Dual-Nested					11	108.0					76.8 97.1
										1					77.1
				Dual-Nested					11	109.0					98.2
	828285.32	1805.43		5 11:	Schedule 80 PVC	Stainless Steel	0.010		4.	400.0					77.3
	828285.84	1805.43	1805.05	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.0	2	10	107.3	107.3	97.3
	828233.91	1805.48	1805.03	Dual Norted	Schedule 80 PVC	Stainless Steel	0.010	#2/16	44	100.0	2	10	86.8	86.8	76.8
	828234.41	1805.48	1804.97	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.0	2	10	106.0	106.0	96.0
26717212.89	828238.61	1805.44	1805.05	Dual-Nosted	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	132.0	2	10	64.8	64.8	54.8
26717212.87	828239.01	1805.44	1804.98	Dual-INESIEU	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	132.0	2	10	130.3	130.3	120.3
	828266.62	1805.68	1805.36	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.5	2	10	87.0	87.0	77.0
	828266.90	1805.68	1805.27	2 441 1100104	Schedule 80 PVC	Stainless Steel	0.010	#2/16	• • • • • • • • • • • • • • • • • • • •	100.0	2	10	106.8	106.8	96.8
				Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	131.0			64.8	64.8	54.8
on					Solicatio 00 1 VO	- Cuminoso Oteol	0.010	πΔ/IV		1		10	100.0	1 100.0	120.8
ı	26717273.73 26717285.44 26717285.44 26717285.52 26717234.83 26717235.18 26717240.19 26717240.23 26717231.22 26717242.66 26717242.70 26717249.24 26717212.34 26717212.35 26717212.89 26717212.89 26717212.89 26717212.80 26717212.80 26717212.80	26717273.73 828264.40 26717285.44 828262.62 26717285.52 828263.00 26717234.83 828212.05 26717235.18 828212.26 26717240.19 828236.42 26717240.23 828236.77 26717231.25 828247.87 26717231.22 828248.29 26717242.66 828261.00 26717242.70 828261.37 26717249.26 828285.32 26717249.24 828285.84 26717212.34 828233.91 26717212.34 828233.91 26717212.35 828234.41 26717212.89 828238.61 26717212.89 828238.61 26717212.89 828238.61 26717212.89 828238.61 26717212.89 828239.01 26717217.40 828266.90 26717217.40 828266.90 26717217.87 828271.70 26717218.04 basement, which is a	26717273.73 828264.40 1805.62 26717285.44 828262.62 1805.55 26717285.52 828263.00 1805.55 26717234.83 828212.05 1805.55 26717235.18 828212.26 1805.55 26717240.19 828236.42 1805.41 26717240.23 828236.77 1805.41 26717231.25 828247.87 1805.47 26717231.22 828248.29 1805.47 26717242.66 828261.00 1805.64 26717242.70 828261.37 1805.64 26717242.70 828261.37 1805.43 26717249.26 828285.32 1805.43 26717249.26 828285.32 1805.43 26717212.34 828233.91 1805.48 26717212.35 828234.41 1805.48 26717212.35 828234.41 1805.48 26717212.89 828238.61 1805.48 26717212.87 828239.01 1805.44 26717212.87 828266.90 1805.68 26717217.87 828271.70 1805.59	26717273.73 828264.40 1805.62 1805.20 26717285.44 828262.62 1805.55 1805.12 26717285.52 828263.00 1805.55 1805.12 26717234.83 828212.05 1805.55 1805.10 26717235.18 828212.26 1805.55 1805.07 26717240.19 828236.42 1805.41 1805.03 26717240.23 828236.77 1805.41 1805.03 26717231.25 828247.87 1805.47 1805.11 26717231.22 828248.29 1805.47 1805.12 26717242.66 828261.00 1805.64 1805.28 26717242.70 828263.37 1805.64 1805.35 26717249.26 828285.32 1805.43 1805.13 26717212.34 828238.84 1805.43 1805.05 26717212.34 828233.91 1805.48 1805.05 26717212.89 828234.41 1805.48 1804.97 26717212.87 828239.01 1805.44 1804.98 26717217.40	26717273.73 828264.40 1805.62 1805.20 Dual-Nested 26717285.44 828262.62 1805.55 1805.12 Dual-Nested 26717285.52 828263.00 1805.55 1805.12 Dual-Nested 26717236.83 828212.05 1805.55 1805.07 Dual-Nested 26717235.18 828212.26 1805.55 1805.07 Dual-Nested 26717240.19 828236.42 1805.41 1805.03 Dual-Nested 26717240.23 828236.77 1805.41 1804.96 26717231.25 828247.87 1805.47 1805.11 Dual-Nested 26717242.66 828261.00 1805.64 1805.28 Dual-Nested 26717242.66 828261.00 1805.64 1805.35 Dual-Nested 26717249.26 828285.32 1805.43 1805.13 Dual-Nested 26717249.26 828285.84 1805.43 1805.05 Dual-Nested 26717212.34 828233.91 1805.48 1805.03 Dual-Nested 26717212.35 828234.41 1805.48 1805.03 Dual-Nested 26717212.89 828238.61 1805.44 1805.05 Dual-Nested 26717212.87 828239.01 1805.64 1805.36 Dual-Nested 26717217.25 828266.62 1805.68 1805.36 Dual-Nested 26717217.40 828266.90 1805.68 1805.27 Dual-Nested 26717217.87 828271.70 1805.59 1805.24 Dual-Nested	2671723.73 828264.40 1805.62 1805.20 26717285.44 828262.62 1805.55 1805.12 26717285.52 828263.00 1805.55 1805.12 26717234.83 828212.05 1805.55 1805.10 26717235.18 828212.26 1805.55 1805.07 26717240.19 828236.42 1805.41 1805.03 26717240.23 828247.87 1805.41 1804.96 26717231.25 828247.87 1805.47 1805.11 26717242.66 828247.87 1805.47 1805.12 26717242.66 828261.00 1805.64 1805.28 26717242.70 828261.37 1805.43 1805.35 26717249.24 82825.84 1805.43 1805.03 26717249.24 828285.84 1805.43 1805.05 26717212.35 828244.41 1805.43 1805.05 26717212.36 828233.91 1805.48 1804.97 26717212.37 828239.01 1805.44 1804.98 26717212.87 828266.90 1805.68 1805.27 26717218.04 828271.95 1805.59 1805.32 n eter floor of the Unit 4 basement, which is approximately 8 feet below the surrounding grade.	26717273.73 828264.40 1805.62 1805.20 Dual-Nested Schedule 80 PVC Stainless Steel 26717285.44 828262.62 1805.55 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 26717234.83 828212.05 1805.55 1805.10 Dual-Nested Schedule 80 PVC Stainless Steel 26717234.83 828212.05 1805.55 1805.07 Dual-Nested Schedule 80 PVC Stainless Steel 26717240.19 828236.42 1805.41 1805.03 Dual-Nested Schedule 80 PVC Stainless Steel 26717240.19 828236.47 1805.41 1804.96 Schedule 80 PVC Stainless Steel 26717231.25 828247.87 1805.47 1805.11 Dual-Nested Schedule 80 PVC Stainless Steel 26717231.22 828248.29 1805.47 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 26717242.66 828261.00 1805.64 1805.35 Dual-Nested Schedule 80 PVC Stainless Steel 26717242.66 828261.00 1805.64 1805.35 Dual-Nested Schedule 80 PVC Stainless Steel 26717242.26 828285.34 1805.43 1805.13 Dual-Nested Schedule 80 PVC Stainless Steel 26717249.24 828285.34 1805.43 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 26717212.35 828234.41 1805.48 1805.03 Dual-Nested Schedule 80 PVC Stainless Steel 26717212.35 828234.41 1805.44 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 26717212.89 828238.61 1805.44 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 26717212.87 828239.01 1805.44 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 26717217.75 828266.02 1805.68 1805.36 Dual-Nested Schedule 80 PVC Stainless Steel 26717217.77 8282239.01 1805.69 1805.27 Dual-Nested Schedule 80 PVC Stainless Steel 26717217.87 828271.70 1805.69 1805.24 Dual-Nested Schedule 80 PVC Stainless Steel 26717217.80 82826.00 1805.68 1805.32 Dual-Nested Schedule 80 PVC Stainless Steel 26717217.80 82826.00 1805.68 1805.32 Dual-Nested Schedule 80 PVC Stainless Steel 26717217.40 82826.00 1805.69 1805.69 Schedule 80 PVC Stainless Steel 26717217.40 82826.00 1805.69 1805.59 1805.24 Dual-Nested Schedule 80 PVC Stainless Steel	26717273.73 828264.40 1805.62 1805.20 Dual-Nested Schedule 80 PVC Stainless Steel 0.010	2671723.73 828264.40 1805.62 1805.20 26717235.44 628262.62 1805.55 1805.12 26717234.83 828212.05 1805.55 1805.10 26717234.83 828212.05 1805.55 1805.07 26717234.83 828212.06 1805.55 1805.07 26717234.01 828236.42 1805.41 1805.03 26717234.02 828248.29 1805.41 1805.41 1804.96 26717231.22 828248.29 1805.47 1805.11 26717234.26 828285.32 1805.64 1805.35 26717240.79 828235.32 1805.64 1805.35 26717240.79 828236.32 1805.43 1805.35 26717240.79 828236.32 1805.43 1805.35 26717240.79 828236.30 1805.64 1805.35 26717240.79 828236.30 1805.44 1805.35 26717240.79 828236.30 1805.43 1805.13 2671721.23 828234.41 1805.48 1805.03 2671721.23 828234.41 1805.48 1805.03 2671721.23 828234.41 1805.48 1805.03 2671721.23 828234.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.23 828233.41 1805.48 1805.03 2671721.24 828266.60 1805.68 1805.27 2671721.75 828230.01 1805.44 1804.98 2671721.75 828230.01 1805.44 1805.69 2671721.75 828266.90 1805.69 1805.24 2671721.75 828266.90 1805.59 1805.24 2671721.75 828271.70 1805.59 1805.24 2671721.75 828271.70 1805.59 1805.24 2671721.80 828271.70 1805.59 1805.24 2671721.80 828271.70 1805.59 1805.24 2671721.80 828271.70 1805.59 1805.24 26717218.04 828266.90 1805.64 805.24 26717218.04 828266.90 1805.64 805.64 805.64 805.64 805.64 805.64 805.	26717273.73 828264.40 1805.62 1805.50 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 26717285.52 828263.00 1805.55 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671728.52 828263.00 1805.55 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671723.18 828212.05 1805.55 1805.07 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671723.18 82824.20 1805.55 1805.07 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671723.12 82824.21 1805.41 1805.03 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671723.12 82824.22 1805.41 1805.03 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671723.12 82824.29 1805.47 1805.11 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671723.12 82824.29 1805.47 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671723.12 82824.29 1805.47 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 26717242.66 828261.37 1805.64 1805.28 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 12 26717242.66 828261.37 1805.64 1805.28 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 12 26717242.67 828261.37 1805.64 1805.35 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671724.24 82828.84 1805.43 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671721.23 82828.84 1805.43 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671721.23 82828.34 1805.44 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671721.23 82828.34 1805.44 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671721.23 82829.34 1805.44 1805.05 Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671721.23 82829.34 1805.44 1805.05 Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671721.24 82 82829.34 1805.44 1805.05 Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671721.34 82829.34 1805.35 1805.34 1805.36 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 2671721.34 82829.34 1805.35 1805.34 1805.35 1805.34 1805.36 Sche	26717273.73 828264.40 1805.62 1805.20 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717285.52 828263.00 1805.55 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 132.0 26717231.53 828263.00 1805.55 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717231.23 828263.00 1805.55 1805.07 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717231.25 828247.87 1805.41 1805.03 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717231.25 828247.87 1805.41 1805.15 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717231.25 828247.87 1805.47 1805.11 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717231.22 828248.29 1805.47 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 108.0 26717249.26 8282861.37 1805.64 1805.25 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 108.0 26717249.26 8282861.37 1805.64 1805.35 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717249.24 828228.54 1805.43 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717249.24 828228.58 1805.43 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717249.24 828228.58 1805.43 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717212.34 828233.91 1805.48 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717212.35 828234.41 1805.48 1805.05 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717212.89 828238.61 1805.44 1805.55 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717212.89 828239.01 1805.44 1805.55 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717212.89 828239.01 1805.44 1805.55 Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717212.89 828239.01 1805.44 1805.55 Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717212.89 828239.01 1805.54 1805.55 Schedule 80 PVC Stainless Steel 0.010 #2/16 11 109.0 26717217.89 828239.0	26717273.73 828284.40 1805.62 1805.25 1805.12 26717285.52 82826.262 1805.55 1805.12 2 2 2 2 2 2 2 2 2	26717273.73 828264.40 1805.62 1805.25 1805.15	26717273.73 328264.40 1805.62 1805.20 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 108.0 2 10 106.9 106.5 26717234.83 828212.05 1805.55 1805.12 Dual-Nested Schedule 80 PVC Stainless Steel 0.010 #2/16 11 132.0 2 10 165.3 12 12 12 12 12 10 123.8 12 12 12 10 123.8 12 12 12 10 123.8 12 12 12 12 10 123.8 12 12 12 12 12 10 123.8 12 12 12 12 10 123.8 12 12 12 12 12 10 123.8 12 12 12 10 123.8 12 12 12 10 123.8 12 12 12 12 12 12 10 123.8 12 12 12 12 12 12 12 1	261717273.73 828264.40 1806.62 1805.55 1805.12 261717285.44 82822.62 1805.55 1805.12 261717285.62 828263.00 1805.55 1805.12 26171729.518 628212.26 1805.55 1805.10 26171729.518 628212.26 1805.55 1805.10 26171729.518 628212.26 1805.55 1805.10 26171729.18 628212.26 1805.55 1805.10 26171729.18 628212.26 1805.55 1805.10 26171729.18 26171729.18 26171729.18 26171729.18 26171729.18 26171729.19 26171729.19 26171729.19 26171729.19 26171729.19 26171729.19 26171729.19 26171729.19 26171729.19 26171729.19 26171729.29 26171729.