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Memo

To	Jamie Schwartz
From	Alice Sandzén
Date	7 September 2021
Subject	Second Revision to the Addendum to OU-3 2020 Annual Hydrogeologic and Site Characterization Report

Dear Jamie,

On behalf of Bridgeton Landfill, LLC, Cotter Corporation (N.S.L.), and the United States Department of Energy (collectively, "OU-3 Respondents"), ERM Consulting & Engineering, Inc. (ERM) submitted an Annual Hydrogeologic and Site Characterization Report (Annual Report) on 1 March 2021 to summarize Remedial Investigation/Feasibility Study data collected during the calendar year 2020, and provide an updated conceptual site model (CSM) for West Lake Landfill (Site) Operable Unit 3 (OU-3). ERM submitted an addendum on 28 April 2021 to provide validated data from the fourth quarter (Q4) 2020 groundwater monitoring event that was not available at the time of the Annual Report submittal, as well as statistical summaries of those validated data, the associated data validation reports, and one additional deviation from the Field Sampling Plan that was not documented in the primary Annual Report submittal.

A revision to the Annual Report Addendum was submitted on 16 July 2021 that included revisions to initial calibration verification validation findings. After submitting the revision, ERM identified additional laboratory errors in one record for total polychlorinated biphenyls (PCBs)[1] and two records for total xylenes,[2] and the laboratory reissued revised laboratory reports. The revised laboratory reports and EDDs reported total xylene in the laboratory blank; as a result, three total xylene results in associated field samples were qualified as non-detect during validation due to laboratory blank contamination. The revised validation reports are enclosed.

Additionally, while revising the tables in the Annual Report Addendum, the following omissions were identified:

[1] The laboratory analyst failed to mark the total PCB result as non-detect when all individual mixtures in the sample were below the method detection limit. The error was not found until data analysis was performed in support of Tech Memo 18. While recalculations are not performed during the Stage 2B validation, the data review team has been instructed to verify that detections and non-detections for total results are consistent with the individual associated results contributing to the total value.

[2] One laboratory blank had detections for both m,p-xylene and o-xylene, however, the corresponding total xylene result was reported as non-detect. The laboratory had previously corrected the error in the Level 4 reports, but failed to provide the corresponding updated Level 2 summary packages and EDDs to ERM, resulting in incorrect data in the ERM database and incorrect QC summary forms used for data validation.

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- Well location D-3 was omitted from all groundwater result tables.[3]
- USEPA Primary Maximum Contaminant Level (MCL) values for uranium and 2,4-D were not included.
- The USEPA drinking water advisory (February 2003) value for sodium was not included.
- Tap water Regional Screening Levels (RSLs) for individual analytes were not applied to co-eluters m,p-cresol and m,p-xylenes.
- The RSL for 1,3-dichloropropene was not applied to isomer cis-1,3-dichloropropene.
- The RSL for iodine was not applied to iodide results.

The following tables have been revised to include well location D-3, additional QAPP MCL and RSL values, as well as the corrected total PCB and total xylene results:

- Table 1: Q4 2020 Validated Data for Gas, General Chemistry, and Herbicides
- Table 2: Q4 2020 Validated Data for Total Metals
- Table 3: Q4 2020 Validated Data for Dissolved Metals
- Table 4a: Q4 2020 Validated Data for Semivolatile Organic Compounds
- Table 4b: Q4 2020 Validated Data for Semivolatile Organic Compounds
- Table 5: Q4 2020 Validated Data for Semivolatile Organic Compounds - PAHs
- Table 6: Q4 2020 Validated Data for Total Petroleum Hydrocarbons and PCBs
- Table 7a: Q4 2020 Validated Data for Volatile Organic Compounds
- Table 7b: Q4 2020 Validated Data for Volatile Organic Compounds

With the inclusion of additional QAPP MCL and RSL values some sodium, iodide, and m,p-xylenes results are now shown as highlighted exceedances.

Please contact me at (603) 667-0682 if you have any questions.

Sincerely,

Alice Sandzén

Alice Sandzén
Project Manager

[3] This error was traced to a bug in the software utilized to manage project data, which caused the first alphanumeric well location to be omitted from generated crosstab reports. Earlier reviewed versions of the tables included all well locations. A software upgrade occurred during the preparation of additional table revisions, resulting in the erroneous omission of well location D-3. ERM reached out to the software vendor, identified a workaround, and remedied files associated with the bug. ERM has tested the next version of software and confirmed that this bug has been resolved.

cc:

Lynn Juett, EPA Region 7
Tom Mahler, EPA Region 7
Alyse Stoy, EPA Region 7
Ryan Seabaugh, Missouri Department of Natural Resources
Scott Sklenar, Exelon Corporation
Victoria Warren, On behalf of Bridgeton Landfill, LLC
Dana Sincox, Bridgeton Landfill, LLC
Erin Fanning, Bridgeton Landfill, LLC
Jeffery Murl, DOE-LM
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Bill Beck, Lathrop GPM LLP
Stephanie Feingold, Morgan Lewis
John McGahren, Morgan Lewis
Steven Miller, U.S. Department of Energy
Philip Dupre, U.S. Department of Justice

TABLES

Table 1: Q4 2020 Validated Data for Gas, General Chemistry, and Herbicides
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65	I-66
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36	26.9 - 36.9
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020	11-05-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1														
Dissolved Permanent Gases, Total																		
Carbon dioxide	RSK-175	ug/L	NE	NE	**106,000**	**81,300**	**84,000**	**39,000**	**78,800**	**98,300**	**68,800**	**357,000**	**106,000**	**219,000**	**75,000**	**41,900**	**19,100**	**51,000**
Methane	RSK-175	ug/L	NE	NE	**5,200**	**1,900**	**460**	**27**	**43**	**310**	**260**	**24,000**	**1,100**	**16,000**	**190**	**150**	**650**	< 5.0 U
General Chemistry Parameters																		
Bromide	SW9056A	mg/L	NE	NE	**4.1**	**1.7**	**0.91**	**0.072**	**0.065**	**0.26**	**1.2**	**6.9**	**3.6**	**3.9**	**1.6**	< 0.050 U	**0.039 J**	**0.13**
Chloride	SW9056A	mg/L	NE	NE	**249**	**145**	**140**	**192**	**120**	**499 J+**	**201**	**1,120**	**247**	**332**	**163**	**52.8**	**116**	**208**
Fluoride	SW9056A	mg/L	4	0.08	**0.094 J**	**5.0**	**13.4**	**0.17**	**0.31**	**0.13**	**0.15**	**0.28**	**3.4**	**0.13**	**3.8**	**0.48**	**0.39**	**0.37**
Iodide	SW9056A	mg/L	NE	0.02	**0.26 J**	**0.15 J**	**0.15 J**	< 0.50 U	< 0.50 U	**0.084 J**	**0.15 J**	**3.8**	**0.53**	**0.47 J**	**0.21 J**	< 0.50 U	< 0.50 U	< 0.50 U
Sulfate	SW9056A	mg/L	NE	NE	**8.0**	< 0.25 U	**292**	**33.8**	**21.4**	**43.4**	**22.6**	**0.77**	**53.0**	< 0.25 U	**2.5**	**24.6**	**42.8**	**90.5**
Nitrate as N	9056A	mg/L	10	NE	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	**0.031 J**	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U
Nitrite as N	9056A	mg/L	1	NE	< 0.50 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U
Nitrite + Nitrate as N	E353.2	mg/L	NE	NE	**0.052 J**	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	**0.061 J**	< 1.0 U	**0.021 J**	< 0.10 U	< 0.10 U	< 0.10 U	**0.014 J**	< 0.10 U
Phosphorus	E365.1	mg/L	NE	NE	**0.67**	**0.42**	**0.28**	**0.42**	**0.44**	**0.40**	**0.41**	**0.77**	**0.51**	**0.84**	**0.26**	**0.30**	< 0.050 U	**0.067**
Chemical Oxygen Demand	E410.4	mg/L	NE	NE	**77.5**	**42.6**	**39.7**	**7.3 J**	**30.9**	**12.0**	**71.6**	**568**	**72.7**	**118**	**41.6**	**4.9 J**	< 10.0 U	**4.6 J**
Alkalinity, Total as CaCO3	SM2320B	mg/L	NE	NE	**936**	**694**	**737**	**345**	**317**	**422**	**648**	**1,600**	**920**	**1,200**	**637**	**304**	**327**	**459**
Bicarbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	**936**	**694**	**737**	**345**	**317**	**403**	**648**	**1,600**	**920**	**1,200**	**636**	**304**	**327**	**459**
Carbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**19.2**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**1.2 J**	< 2.0 U	< 2.0 U	< 2.0 U
Dissolved Solids, Total	SM2540C	mg/L	NE	NE	**1,230**	**926**	**1,440**	**724**	**502**	**1,380**	**1,010**	**3,340**	**1,430**	**1,670**	**830**	**434**	**564**	**918**
Total suspended solids	SM2540D	mg/L	NE	NE	**74**	**36**	**30**	**25**	**23**	**89**	**46**	**202**	**58**	**71**	**36**	**19**	< 2.6 U	**3**
pH, Lab	SM4500-H-B	pH units	NE	NE	**6.9 J**	**7.6 J**	**7.2 J**	**7.0 J**	**7.2 J**	**6.8 J**	**7.0 J**	**6.6 J**	**7.0 J**	**6.9 J**	**7.2 J**	**7.3 J**	**7.2 J**	**6.9 J**
Ammoniacal Nitrogen NH3N	SM4500-NH3G	mg/L	NE	NE	**48.7**	**5.9**	**2.0**	**0.13**	**22.7**	**2.5**	**12.0**	**111**	**7.2**	**17.1**	**14.3**	**0.32**	< 0.10 U	**0.23**
Sulfide	SM4500-S2-D	mg/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ
Dissolved Organic Carbon	SM5310C	mg/L	NE	NE	**23.3**	**12.0**	**13.1**	**2.0**	**3.6**	**2.5 J**	**11.3**	**150**	**18.9**	**35.6**	**12.0**	**2.3**	**2.4**	**1.5**
Organic Carbon, Total	SM5310C	mg/L	NE	NE	**22.9**	**11.1**	**12.6**	**1.6**	**3.2**	**1.9 J**	**10.5**	**156**	**17.8**	**34.4**	**11.2**	**2.1**	**2.0**	**1.4**
Herbicides, Total																		
2,4,5-TP (Silvex)	SW8151A	ug/L	50	11	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.97 U	< 0.97 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.97 U	< 1.0 U	< 0.96 UJ
2,4-Dichlorophenoxyacetic acid	SW8151A	ug/L	70	17	< 1.0 U	< 1.0 UJ	< 1.0 UJ	**0.89 J**	< 0.97 U	< 0.97 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.97 U	< 1.0 U	< 0.96 U
Dinoseb	SW8151A	ug/L	7	1.5	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 0.97 U	< 0.97 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.97 U	< 1.0 U	< 0.96 U
Trichlorophenoxyacetic Acid, 2,4,5-	SW8151A	ug/L	NE	16	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 0.97 U	< 0.97 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.97 U	< 1.0 U	< 0.96 U

Notes and definitions are presented on Page 7

Table 1: Q4 2020 Validated Data for Gas, General Chemistry, and Herbicides
West Lake Landfill OU-3
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				Sample Location	I-67	I-68	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS	PZ-102-SS	PZ-103-SS
				Sample Depth (ft BGS)	25.4 - 35.4	21.2 - 31.2	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63	79.7 - 89.5	134.7 - 144.5
				Sample Type	N	N	N	N	N	FD	N	N	N	N	N	N	N
				Sample Date	11-10-2020	11-24-2020	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020	11-06-2020	12-03-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Dissolved Permanent Gases, Total																	
Carbon dioxide	RSK-175	ug/L	NE	NE	73,300	36,900	215,000	185,000	243,000	229,000	14,000	24,600	44,000	90,100	38,400	4,290	278,000
Methane	RSK-175	ug/L	NE	NE	17	9.0 J+	23,000	17,000	17,000	16,000	36 J+	23	12 J+	1,600	13 J+	3,900	25,000
General Chemistry Parameters																	
Bromide	SW9056A	mg/L	NE	NE	0.12	0.16	7.1	1.4	2.9	2.8	0.24	< 0.050 U	< 0.050 U	1.4	0.034 J	< 0.050 U	1.8
Chloride	SW9056A	mg/L	NE	NE	124	482	1,060	110	453	459	61.0	2.1	5.8	166	9.2	5.6	329
Fluoride	SW9056A	mg/L	4	0.08	0.20	0.17	0.16	0.13	1.8	1.8	5.7	2.2	0.63	1.6	0.57	0.42	0.61
Iodide	SW9056A	mg/L	NE	0.02	< 0.50 U	< 0.50 U	3.1	0.43 J	1.3	1.3	< 0.50 U	< 0.50 U	< 0.50 U	0.82	< 0.50 U	< 0.50 U	0.30 J
Sulfate	SW9056A	mg/L	NE	NE	107	61.8	0.34	0.25 J	0.21 J	0.30	37.0	11.5	36.1	1.6	61.5	11.4	0.69
Nitrate as N	9056A	mg/L	10	NE	< 0.050 U	0.86	0.020 J	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	0.11	0.089	< 0.050 U	< 0.050 U	< 0.050 U	0.015 J
Nitrite as N	9056A	mg/L	1	NE	< 0.050 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.050 U	< 0.050 U	< 0.050 U	0.037 J	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.50 U
Nitrite + Nitrate as N	E353.2	mg/L	NE	NE	< 0.10 U	0.96	< 0.10 U	< 1.0 U	< 0.10 U	< 0.10 U	0.017 J	0.12	0.12	< 0.10 U	< 0.10 U	< 0.10 U	< 1.0 U
Phosphorus	E365.1	mg/L	NE	NE	0.35	0.056 J+	3.4	0.34	0.072	0.077	0.037 J	< 0.050 U	< 0.050 U	0.063	< 0.050 U	< 0.050 U	0.24
Chemical Oxygen Demand	E410.4	mg/L	NE	NE	9.9 J	4.1 J	1,120	93.6	346	359	24.6	6.0 J	6.9 J	72.0	6.1 J	4.4 J	248
Alkalinity, Total as CaCO3	SM2320B	mg/L	NE	NE	397	335	1,120	1,030	1,080	1,070	494	322	384	673	405	422	869
Bicarbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	397	335	1,120	1,030	1,080	1,070	479	302	359	673	405	422	869
Carbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	15.0	20.6	25.4	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Dissolved Solids, Total	SM2540C	mg/L	NE	NE	864	1,220	1,800	914	1,820	1,770	654	310	429	896	483	434	1,530
Total suspended solids	SM2540D	mg/L	NE	NE	34	< 2.5 U	43	36	32	29	< 2.5 U	< 2.5 U	< 2.5 U	3	< 2.5 U	2	36
pH, Lab	SM4500-H-B	pH units	NE	NE	6.8 J	6.8 J	6.7 J	6.7 J	6.6 J	6.6 J	7.7 J	7.3 J	7.5 J	7.8 J	7.2 J	7.1 J	6.5 J
Ammoniacal Nitrogen NH3N	SM4500-NH3G	mg/L	NE	NE	0.44	< 0.10 U	477	138	55.6	56.1	0.33	0.21	< 0.10 U	9.9	< 0.10 U	0.094 J	0.78
Sulfide	SM4500-S2-D	mg/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.66 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.29 J-	< 1.0 U
Dissolved Organic Carbon	SM5310C	mg/L	NE	NE	4.5	1.8	542	27.7	100	100	< 1.0 U	1.2 J+	< 1.0 U	19.2	< 1.0 U	1.2 J+	62.4
Organic Carbon, Total	SM5310C	mg/L	NE	NE	4.0	1.4	286	28.3	101	101	0.34 J	0.69 J	0.44 J	19.2	0.69 J	0.55 J	72.7
Herbicides, Total																	
2,4,5-TP (Silvex)	SW8151A	ug/L	50	11	< 1.0 UJ	< 1.0 U	< 0.96 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 0.96 UJ	< 0.99 UJ	< 0.98 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
2,4-Dichlorophenoxyacetic acid	SW8151A	ug/L	70	17	< 1.0 U	< 1.0 U	< 0.96 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 0.96 UJ	< 0.99 U	< 0.98 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Dinoseb	SW8151A	ug/L	7	1.5	< 1.0 U	< 1.0 U	< 0.96 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 0.96 UJ	< 0.99 UJ	< 0.98 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ
Trichlorophenoxyacetic Acid, 2,4,5-	SW8151A	ug/L	NE	16	< 1.0 UJ	< 1.0 U	< 0.96 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 0.96 UJ	< 0.99 UJ	< 0.98 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U

Notes and definitions are presented on Page 7

Table 1: Q4 2020 Validated Data for Gas, General Chemistry, and Herbicides
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	PZ-103-SS	PZ-104-KS	PZ-104-SD	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS	PZ-107-SS	PZ-109-SS	PZ-109-SS
				Sample Depth (ft BGS)	134.7 - 144.5	397.37 - 407.17	235.2 - 245	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5
				Sample Type	FD	N	N	N	N	N	N	FD	N	N	N	FD
				Sample Date	12-03-2020	12-03-2020	11-04-2020	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020	12-03-2020	11-10-2020	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**												
Dissolved Permanent Gases, Total																
Carbon dioxide	RSK-175	ug/L	NE	NE	**282,000**	**25,900**	**39,200**	**39,500**	**48,100**	**22,400**	**33,000**	**36,800**	**105,000**	**191,000**	**30,200**	**31,600**
Methane	RSK-175	ug/L	NE	NE	**22,000**	**180**	**9,400**	< 5.0 U	**9.8 J+**	**61**	**83**	**66**	**1,100**	**7,100**	< 5.0 U	< 5.0 U
General Chemistry Parameters																
Bromide	SW9056A	mg/L	NE	NE	**1.8**	**0.12**	**0.59**	**0.032 J**	**0.20**	**0.058**	**0.20**	**0.19**	**0.61**	**3.3**	**0.048 J**	< 0.050 U
Chloride	SW9056A	mg/L	NE	NE	**316**	**62.4**	**150**	**3.8**	**90.3**	**13.3**	**73.4**	**72.7**	**101**	**472 J+**	**4.5**	**4.7**
Fluoride	SW9056A	mg/L	4	0.08	**0.61**	**1.8**	**1.0**	**0.79**	**0.57**	**3.0**	**1.3**	**1.3**	**1.8**	**0.49**	**2.6**	**2.6**
Iodide	SW9056A	mg/L	NE	0.02	**0.30 J**	< 0.50 U	**0.64**	< 0.50 U	< 0.50 U	< 0.50 U	**0.21 J**	**0.20 J**	**1.0**	**1.5**	< 0.50 U	< 0.50 U
Sulfate	SW9056A	mg/L	NE	NE	**0.56**	**30.8**	**40.7**	**32.3**	**55.0**	**11.2**	**66.7**	**66.5**	**26.3**	**17.0**	**24.4**	**24.5**
Nitrate as N	9056A	mg/L	10	NE	**0.016 J**	< 0.050 U	< 0.050 U	**0.082 J+**	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	**0.015 J**	**0.10**	**0.10**
Nitrite as N	9056A	mg/L	1	NE	< 0.50 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.50 U	< 0.050 U	< 0.050 U
Nitrite + Nitrate as N	E353.2	mg/L	NE	NE	< 1.0 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 1.0 UJ	**0.14**	**0.13**
Phosphorus	E365.1	mg/L	NE	NE	**0.26**	**0.042 J**	**0.095**	< 0.050 U	**0.028 J**	< 0.050 U	**0.028 J**	< 0.050 U	**0.028 J**	**0.27**	**0.027 J**	**0.028 J**
Chemical Oxygen Demand	E410.4	mg/L	NE	NE	**229**	**5.0 J**	**81.0**	< 10.0 U	**10.6**	< 10.0 U	**8.0 J**	**9.5 J**	**34.8**	**196**	< 10.0 U	< 10.0 U
Alkalinity, Total as CaCO3	SM2320B	mg/L	NE	NE	**871**	**329**	**465**	**392**	**400**	**371**	**376**	**388**	**521**	**909**	**428**	**419**
Bicarbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	**871**	**329**	**465**	**392**	**400**	**371**	**376**	**388**	**521**	**909**	**428**	**419**
Carbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Dissolved Solids, Total	SM2540C	mg/L	NE	NE	**1,480**	**423**	**716**	**401**	**608**	**368**	**555**	**562**	**702**	**1,600**	**430**	**418**
Total suspended solids	SM2540D	mg/L	NE	NE	**37**	< 2.5 U	**15**	< 2.5 U	**2**	< 2.5 U	**3**	< 2.5 U	**5**	**10**	**2**	< 2.5 U
pH, Lab	SM4500-H-B	pH units	NE	NE	**6.5 J**	**7.3 J**	**6.9 J**	**7.3 J**	**7.1 J**	**7.4 J**	**7.1 J**	**7.2 J**	**6.8 J**	**6.8 J**	**7.2 J**	**7.2 J**
Ammoniacal Nitrogen NH3N	SM4500-NH3G	mg/L	NE	NE	**0.78**	**0.22**	**21.3**	< 0.10 U	< 0.10 U	**0.13**	**1.4**	**1.4**	**0.65**	**28.4 J-**	< 0.10 U	< 0.10 U
Sulfide	SM4500-S2-D	mg/L	NE	NE	< 1.0 U	**0.064 J**	< 1.0 U	< 1.0 U	< 1.0 U	**0.046 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dissolved Organic Carbon	SM5310C	mg/L	NE	NE	**66.3**	< 1.0 U	**22.6**	**1.1 J+**	**3.9**	< 1.0 U	**2.9 J+**	**2.8 J+**	**11.9**	**54.2**	**1.2 J+**	**1.1 J+**
Organic Carbon, Total	SM5310C	mg/L	NE	NE	**68.8**	**0.49 J**	**23.9**	**0.47 J**	**3.6**	< 1.0 U	**2.4**	**2.4**	**11.1**	**65.2**	**0.87 J**	**0.87 J**
Herbicides, Total																
2,4,5-TP (Silvex)	SW8151A	ug/L	50	11	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.1 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ
2,4-Dichlorophenoxyacetic acid	SW8151A	ug/L	70	17	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.1 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dinoseb	SW8151A	ug/L	7	1.5	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.1 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Trichlorophenoxyacetic Acid, 2,4,5-	SW8151A	ug/L	NE	16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.1 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ

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				Sample Location	PZ-111-KS	PZ-111-SD	PZ-111-SS	PZ-113-AD	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS	PZ-115-SS	PZ-116-SS	PZ-200-SS
				Sample Depth (ft BGS)	357.15 - 366.96	199.4 - 209.2	105.5 - 115.5	98.6 - 108.4	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48	74.68 - 84.48	151.4 - 161	9.62 - 97.64
				Sample Type	N	N	N	N	FD	N	N	N	N	FD	N	N
				Sample Date	11-09-2020	11-09-2020	11-09-2020	11-05-2020	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020	11-24-2020	12-04-2020	12-02-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1												
Dissolved Permanent Gases, Total																
Carbon dioxide	RSK-175	ug/L	NE	NE	3,460	35,900	134,000	111,000	112,000	90,600	11,200	248,000	135,000	130,000	9,670	67,700
Methane	RSK-175	ug/L	NE	NE	24	42	8,200	2,400	2,600	220	7.6 J+	13,000	8,300	8,200	21 J+	960
General Chemistry Parameters																
Bromide	SW9056A	mg/L	NE	NE	0.54	0.090	12.9	4.3	4.3	1.1	0.070	0.32	0.56 J	0.78 J	0.036 J	0.31
Chloride	SW9056A	mg/L	NE	NE	143	10.7	577	352	358	114	11.7	491	505 J+	526	3.9	615
Fluoride	SW9056A	mg/L	4	0.08	14.9	2.3	0.47	0.20	0.18	0.27	3.0	0.18	0.37 J	0.54	2.8	0.059 J
Iodide	SW9056A	mg/L	NE	0.02	< 0.50 U	< 0.50 U	0.53	0.28 J	0.26 J	0.75	< 0.50 U	0.12 J	0.22 J	0.23 J	< 0.50 U	< 0.50 U
Sulfate	SW9056A	mg/L	NE	NE	71.0	47.6	17.7	20.5	20.7	5.8	20.3	< 0.25 U	1.7 J	2.7 J	25.8	71.7
Nitrate as N	9056A	mg/L	10	NE	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.050 U	< 0.050 U	0.017 J
Nitrite as N	9056A	mg/L	1	NE	< 0.050 U	< 0.050 U	< 0.50 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.050 U	< 0.50 U
Nitrite + Nitrate as N	E353.2	mg/L	NE	NE	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	0.018 J	< 0.10 U	< 0.10 U	0.023 J
Phosphorus	E365.1	mg/L	NE	NE	< 0.050 U	< 0.050 U	0.12	0.37	0.39	0.14	< 0.050 U	2.0 J-	0.27	0.23	0.060	0.19
Chemical Oxygen Demand	E410.4	mg/L	NE	NE	< 10.0 U	3.8 J	108	50.7	54.2	22.5	< 10.0 U	53.6 J-	27.2	25.1	< 10.0 U	10.3
Alkalinity, Total as CaCO3	SM2320B	mg/L	NE	NE	569	395	789	753	742	645	266	597	709	703	297	464
Bicarbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	557	395	789	753	742	645	266	597	709	703	283	464
Carbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	12.2	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	13.8	< 2.0 U
Dissolved Solids, Total	SM2540C	mg/L	NE	NE	972	426	1,680	1,270	1,280	842	294	1,430	1,320	1,340	329	1,440
Total suspended solids	SM2540D	mg/L	NE	NE	< 2.7 U	< 2.5 U	5	66	65	15	< 2.5 U	92	4	7	3	4
pH, Lab	SM4500-H-B	pH units	NE	NE	8.1 J	7.2 J	6.8 J	6.9 J	7.0 J	6.9 J	7.4 J	6.6 J	6.7 J	6.7 J	7.6 J	6.6 J
Ammoniacal Nitrogen NH3N	SM4500-NH3G	mg/L	NE	NE	0.51	0.097 J	2.0	19.3	19.6	4.0	< 0.10 U	5.8	2.4	2.4	0.087 J	< 0.10 U
Sulfide	SM4500-S2-D	mg/L	NE	NE	< 1.0 U	< 1.0 U	0.032 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Dissolved Organic Carbon	SM5310C	mg/L	NE	NE	< 1.0 U	1.2 J+	34.3	17.4	17.4	6.9	< 1.0 U	7.7	45.7 J	9.1 J	0.88 J	1.6 J+
Organic Carbon, Total	SM5310C	mg/L	NE	NE	0.53 J	0.69 J	34.5	14.8	15.4	6.7	0.60 J	7.2	8.3	8.3	0.54 J	0.95 J
Herbicides, Total																
2,4,5-TP (Silvex)	SW8151A	ug/L	50	11	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.1 UJ	< 1.0 U	< 1.0 UJ	< 0.96 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 0.96 U
2,4-Dichlorophenoxyacetic acid	SW8151A	ug/L	70	17	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.1 U	< 1.0 U	< 1.0 U	< 0.96 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 0.96 U
Dinoseb	SW8151A	ug/L	7	1.5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.1 U	< 1.0 U	< 1.0 U	< 0.96 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 0.96 U
Trichlorophenoxyacetic Acid, 2,4,5-	SW8151A	ug/L	NE	16	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.1 U	< 1.0 U	< 1.0 U	< 0.96 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 0.96 U

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				Sample Location	PZ-201A-SS	PZ-202-SS	PZ-203-SS	PZ-204A-SS	PZ-204-SS	PZ-205-AS	PZ-205-SS	PZ-206-SS	PZ-207-AS	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SD
				Sample Depth (ft BGS)	80 - 89.8	40.2 - 89.1	99.6 - 109.4	79.5 - 89.1	10.95 - 89.35	38.55 - 48.35	88.57 - 98.37	115 - 124.8	34.9 - 39.7	140 - 150	138 - 148	237 - 247	237 - 247
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	12-04-2020	12-02-2020	11-16-2020	12-04-2020	12-04-2020	11-11-2020	11-11-2020	11-10-2020	12-01-2020	11-04-2020	11-03-2020	11-03-2020	11-05-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Dissolved Permanent Gases, Total																	
Carbon dioxide	RSK-175	ug/L	NE	NE	**18,000**	**635,000**	**55,200**	**126,000**	**23,500**	**84,900**	**35,800**	**55,600**	**314,000**	**17,800**	**49,700**	**29,200 J-**	NA
Methane	RSK-175	ug/L	NE	NE	< 5.0 U	**30,000**	**5,100**	**4,800**	**8.6 J+**	**24,000**	**11 J+**	**650**	**20,000**	**7.1 J+**	**3,500**	**9.7 J+**	NA
General Chemistry Parameters																	
Bromide	SW9056A	mg/L	NE	NE	< 0.050 U	**9.0**	**0.096**	**3.2**	< 0.050 U	**16.1**	**0.24**	**0.75**	**2.1**	< 0.050 U	**0.17**	NA	**0.23**
Chloride	SW9056A	mg/L	NE	NE	**5.3**	**1,360**	**16.8**	**908**	**5.5**	**2,780**	**32.9**	**111**	**243**	**3.0**	**31.4**	NA	**48.2**
Fluoride	SW9056A	mg/L	4	0.08	**0.33**	**0.22**	**0.52**	**0.15**	**0.42**	**0.21**	**0.39**	**1.8**	**0.071 J**	**1.9**	**0.65**	NA	**2.2**
Iodide	SW9056A	mg/L	NE	0.02	< 0.50 U	**2.6**	< 0.50 U	**0.83**	< 0.50 U	**6.9**	< 0.50 U	**0.30 J**	**0.22 J**	< 0.50 U	**0.089 J**	NA	< 0.50 U
Sulfate	SW9056A	mg/L	NE	NE	**64.0**	**0.80**	**46.1**	**200**	**24.5**	**0.33**	**54.4**	**43.9**	**0.13 J**	**22.5**	**6.8**	NA	**37.1**
Nitrate as N	9056A	mg/L	10	NE	**1.7**	**0.052**	< 0.050 U	< 0.050 U	**0.16**	< 0.050 U	**0.075 J+**	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	NA	**0.13**
Nitrite as N	9056A	mg/L	1	NE	< 0.050 U	< 0.50 U	< 0.050 U	< 0.50 U	< 0.050 U	< 0.50 U	< 0.050 U	< 0.050 U	< 0.50 U	< 0.050 U	< 0.050 U	NA	**0.017 J**
Nitrite + Nitrate as N	E353.2	mg/L	NE	NE	**1.7**	< 0.10 U	< 0.10 U	< 1.0 U	**0.19 J+**	< 0.40 U	< 0.10 U	< 0.10 U	**0.014 J-**	< 0.10 U	< 0.10 U	NA	**0.20**
Phosphorus	E365.1	mg/L	NE	NE	**0.11 J+**	**0.21**	< 0.050 U	**0.094**	**0.075**	**1.1**	< 0.050 U	**0.052**	**0.76**	**0.040 J**	**1.7**	NA	< 0.050 U
Chemical Oxygen Demand	E410.4	mg/L	NE	NE	< 10.0 UJ	**777**	**44.6**	**264**	< 10.0 U	**1,200**	< 10.0 U	**49.0**	**120 J+**	**5.0 J**	**33.2**	NA	**12.8**
Alkalinity, Total as CaCO3	SM2320B	mg/L	NE	NE	**342**	**960**	**386**	**598**	**392**	**974**	**365**	**499**	**1,140**	**365**	**456**	NA	**382**
Bicarbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	**331**	**960**	**386**	**598**	**368**	**974**	**365**	**499**	**1,140**	**365**	**456**	NA	**382**
Carbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	**11.2**	< 2.0 U	< 2.0 U	< 2.0 U	**23.2**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	NA	< 2.0 U
Dissolved Solids, Total	SM2540C	mg/L	NE	NE	**441**	**3,820**	**475**	**2,560**	**394**	**6,550**	**491**	**698**	**1,240**	**368**	**466**	NA	**477**
Total suspended solids	SM2540D	mg/L	NE	NE	< 2.7 U	**116**	< 2.5 U	**37**	< 2.5 U	**246**	< 2.5 U	**3**	**46**	**4**	**5**	NA	< 2.5 U
pH, Lab	SM4500-H-B	pH units	NE	NE	**7.5 J**	**6.4 J**	**7.2 J**	**6.6 J**	**7.4 J**	**6.5 J**	**7.4 J**	**7.0 J**	**6.6 J**	**7.2 J**	**7.5 J**	NA	**7.2 J**
Ammoniacal Nitrogen NH3N	SM4500-NH3G	mg/L	NE	NE	**0.038 J**	**0.79**	**0.075 J**	**0.60**	**0.040 J**	**44.3**	< 0.10 U	**0.22**	**93.7**	**0.22**	**14.1**	NA	< 0.10 U
Sulfide	SM4500-S2-D	mg/L	NE	NE	< 1.0 U	< 1.0 U	**0.058 J**	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	**0.047 J**	NA	< 1.0 U
Dissolved Organic Carbon	SM5310C	mg/L	NE	NE	< 1.0 U	**224**	**15.3**	**74.1**	**0.86 J**	**402**	**1.1 J+**	**16.1**	**33.3**	**0.85 J**	**9.2**	NA	**4.2**
Organic Carbon, Total	SM5310C	mg/L	NE	NE	**0.51 J**	**244**	**15.0**	**73.6**	**0.50 J**	**366**	**0.65 J**	**15.3**	**37.2**	**0.56 J**	**9.0**	NA	**3.5**
Herbicides, Total																	
2,4,5-TP (Silvex)	SW8151A	ug/L	50	11	< 1.0 U	< 0.96 U	< 0.97 U	< 1.0 U	< 1.0 U	< 0.96 UJ	< 1.0 UJ	< 1.1 UJ	< 0.96 UJ	< 1.0 U	< 1.0 U	NA	< 0.95 UJ
2,4-Dichlorophenoxyacetic acid	SW8151A	ug/L	70	17	< 1.0 U	< 0.96 U	< 0.97 U	< 1.0 U	< 1.0 U	< 0.96 U	< 1.0 U	< 1.1 U	< 0.96 U	< 1.0 U	< 1.0 U	NA	< 0.95 U
Dinoseb	SW8151A	ug/L	7	1.5	< 1.0 UJ	< 0.96 U	< 0.97 U	< 1.0 UJ	< 1.0 UJ	< 0.96 U	< 1.0 U	< 1.1 U	< 0.96 UJ	< 1.0 U	< 1.0 U	NA	< 0.95 U
Trichlorophenoxyacetic Acid, 2,4,5-	SW8151A	ug/L	NE	16	< 1.0 U	< 0.96 U	< 0.97 U	< 1.0 U	< 1.0 U	< 0.96 UJ	< 1.0 UJ	< 1.1 UJ	< 0.96 UJ	< 1.0 U	< 1.0 U	NA	< 0.95 U

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				Sample Location	PZ-211-SS	PZ-302-AI	PZ-302-AS	PZ-302-AS	PZ-303-AS	PZ-304-AI	PZ-304-AS	S-5	S-5	S-10	S-82	S-84
				Sample Depth (ft BGS)	137 - 147	32.6 - 42.4	12.2 - 22	12.2 - 22	16 - 25.8	39 - 48.8	17.1 - 26.9	30 - 40	30 - 40	32 - 52	15.5 - 25.5	20.9 - 30.9
				Sample Type	N	N	N	N	N	N	N	N	FD	N	N	N
				Sample Date	12-04-2020	12-01-2020	11-30-2020	12-01-2020	12-04-2020	12-02-2020	12-02-2020	11-20-2020	11-20-2020	11-13-2020	11-23-2020	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**												
Dissolved Permanent Gases, Total																
Carbon dioxide	RSK-175	ug/L	NE	NE	**13,400**	**268,000**	**210,000**	NA	**199,000**	**251,000**	**586,000**	**171,000**	**197,000**	**245,000**	**169,000**	**133,000**
Methane	RSK-175	ug/L	NE	NE	**6.4 J+**	**310**	**10,000**	NA	**23,000**	**7,000**	**21,000**	**13,000**	**13,000**	**2,800**	**2,200**	**1,800 J+**
General Chemistry Parameters																
Bromide	SW9056A	mg/L	NE	NE	< 0.050 U	**0.38**	**0.44**	NA	**2.4**	**3.1**	**2.1**	**9.9**	**9.8**	**2.6**	**2.9**	**0.20**
Chloride	SW9056A	mg/L	NE	NE	**4.9**	**37.9**	**40.8**	NA	**140**	**404**	**241 J-**	**356**	**357**	**223**	**224**	**41.9**
Fluoride	SW9056A	mg/L	4	0.08	**1.9**	**0.16**	**0.35**	NA	**0.15**	**0.26**	**0.46**	< 0.10 U	< 0.10 U	**5.5**	**0.33**	**0.24**
Iodide	SW9056A	mg/L	NE	0.02	< 0.50 U	**0.17 J**	**0.14 J**	NA	**0.57**	**0.58**	**0.45 J**	**0.24 J**	**0.29 J**	**0.40 J**	**0.44 J**	< 0.50 U
Sulfate	SW9056A	mg/L	NE	NE	**28.9**	**21.4**	**0.49**	NA	**0.16 J**	< 0.25 U	**0.24 J**	**0.13 J**	**0.14 J**	**862**	**12.2**	**87.0**
Nitrate as N	9056A	mg/L	10	NE	< 0.050 U	**0.028 J**	< 0.050 U	NA	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U
Nitrite as N	9056A	mg/L	1	NE	< 0.050 U	< 0.050 U	< 0.050 U	NA	< 0.050 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.050 UJ	< 0.50 U	< 0.050 U
Nitrite + Nitrate as N	E353.2	mg/L	NE	NE	< 0.10 U	**0.020 J**	< 0.10 U	NA	< 1.0 U	**0.029 J**	**0.023 J**	**0.049 J**	**0.047 J**	< 0.50 UJ	< 0.10 U	< 0.10 UJ
Phosphorus	E365.1	mg/L	NE	NE	**0.15**	**0.084 J+**	**1.9**	NA	**1.7**	**0.23**	**3.2**	**3.6**	**3.5**	**0.56**	**0.99**	**1.1 J+**
Chemical Oxygen Demand	E410.4	mg/L	NE	NE	< 10.0 U	**19.1**	**50.8**	NA	**160**	**68.4**	**205**	**383**	**419**	**72.0**	**83.1**	**25.9**
Alkalinity, Total as CaCO3	SM2320B	mg/L	NE	NE	**341**	**805**	**652**	NA	**728**	**715**	**1,370**	**2,100**	**1,970**	**601**	**1,180**	**498**
Bicarbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	**341**	**805**	**627**	NA	**728**	**715**	**1,370**	**2,100**	**1,970**	**601**	**1,180**	**498**
Carbonate Alkalinity as CaCO3	SM2320B	mg/L	NE	NE	< 2.0 U	< 2.0 U	**25.2**	NA	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Dissolved Solids, Total	SM2540C	mg/L	NE	NE	**354**	**914**	**756**	NA	**1,050**	**1,400**	**1,410**	**2,050**	**2,070**	**2,000**	**1,550**	**700**
Total suspended solids	SM2540D	mg/L	NE	NE	< 2.5 U	**6**	NA	**96**	**121**	**42**	**51**	**36**	**48**	**107**	**63**	**80**
pH, Lab	SM4500-H-B	pH units	NE	NE	**7.4 J**	**6.6 J**	**6.5 J**	NA	**6.6 J**	**6.8 J**	**6.7 J**	**7.3 J**	**7.1 J**	**6.5 J**	**6.9 J**	**6.7 J**
Ammoniacal Nitrogen NH3N	SM4500-NH3G	mg/L	NE	NE	**0.10**	**0.069 J**	**3.4**	NA	**0.37**	**4.3**	**150**	**238**	**240**	**48.2**	**13.1 J-**	**1.9**
Sulfide	SM4500-S2-D	mg/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Dissolved Organic Carbon	SM5310C	mg/L	NE	NE	< 1.0 U	**6.2**	**13.9**	NA	**30.5**	**19.8**	**52.7**	**99.6**	**97.0**	**18.7**	**26.5**	**7.5**
Organic Carbon, Total	SM5310C	mg/L	NE	NE	**0.36 J**	**5.2**	**12.8**	NA	**29.5**	**18.0**	**52.2**	**87.5**	**83.8**	**18.4**	**25.6**	**7.3**
Herbicides, Total																
2,4,5-TP (Silvex)	SW8151A	ug/L	50	11	< 1.0 U	< 0.99 UJ	NA	< 0.98 UJ	< 1.0 U	< 0.96 U	< 0.96 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
2,4-Dichlorophenoxyacetic acid	SW8151A	ug/L	70	17	< 1.0 U	< 0.99 U	NA	< 0.98 U	< 1.0 U	< 0.96 U	< 0.96 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Dinoseb	SW8151A	ug/L	7	1.5	< 1.0 UJ	< 0.99 UJ	NA	< 0.98 U	< 1.0 UJ	< 0.96 U	< 0.96 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Trichlorophenoxyacetic Acid, 2,4,5-	SW8151A	ug/L	NE	16	< 1.0 U	< 0.99 UJ	NA	< 0.98 UJ	< 1.0 U	< 0.96 U	< 0.96 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ

Notes and definitions are presented on Page 7

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

J+ = The result is an estimated concentration, but may be biased high.

J- = The result is an estimated concentration, but may be biased low.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

Table 2: Q4 2020 Validated Data for Total Metals
West Lake Landfill OU-3
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				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65	I-66	I-67
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36	26.9 - 36.9	25.4 - 35.4
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020	11-05-2020	11-10-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1															
Metals, Total																			
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U	< 200 U	**145 J**	< 200 U	< 200 U	**665**	< 200 U	**54.9 J**	**154 J**	< 200 U	< 200 U	**67.5 J**	< 200 U	< 200 U	**748**
Barium	SW6010B	ug/L	2,000	380	**2,460**	**1,260**	**862**	**653**	**942**	**1,590**	**1,180**	**1,810**	**1,130**	**2,260**	**808**	**383**	**189**	**181**	**296**
Boron	SW6010B	ug/L	NE	400	**1,210**	**767**	**763**	**139**	**260**	**202**	**887**	**1,780**	**1,470**	**2,430**	**905**	**105**	**148**	**525**	**224**
Calcium	SW6010B	ug/L	NE	NE	**191,000**	**188,000**	**316,000**	**147,000**	**71,700**	**230,000**	**186,000**	**487,000**	**270,000**	**286,000**	**153,000**	**106,000**	**102,000**	**201,000**	**198,000**
Cobalt	SW6010B	ug/L	NE	0.6	**2.2 J**	**1.4 J**	**1.8 J**	< 5.0 U	< 5.0 U	**2.9 J**	**0.98 J**	**17.5**	**3.1 J**	**3.0 J**	**1.4 J**	< 5.0 U	**2.2 J**	**4.2 J**	< 5.0 U
Hardness as CaCO3	SW6010B	ug/L	NE	NE	**750,000**	**659,000**	**991,000**	**502,000**	**284,000**	**815,000**	**672,000**	**1,970,000**	**947,000**	**1,070,000**	**602,000**	**349,000**	**304,000**	**571,000**	**634,000**
Iron	SW6010B	ug/L	NE	1,400	**37,600**	**14,300**	**12,200**	**12,200**	**10,100**	**43,100**	**23,400**	**87,900**	**20,400**	**47,200**	**15,900**	**7,650**	**58.2**	**1,500**	**11,800**
Lithium	SW6010B	ug/L	NE	4	**33.5**	**35.9**	**30.0**	**23.0**	**21.7**	**32.0**	**31.1**	**52.4**	**48.6**	**58.3**	**32.6**	**18.9 J**	< 20.0 U	**27.9**	**25.5**
Magnesium	SW6010B	ug/L	NE	NE	**66,100**	**45,800**	**49,200**	**32,600**	**25,400**	**58,300**	**50,000**	**184,000**	**66,300**	**87,500**	**53,300**	**20,600**	**11,800**	**16,600**	**33,900**
Manganese	SW6010B	ug/L	NE	43	**408**	**458**	**504**	**377**	**283**	**743**	**340**	**2,650**	**567**	**497**	**523**	**630**	**172**	**2,410**	**1,570**
Molybdenum	SW6010B	ug/L	NE	10	**0.74 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**1.2 J**	< 10.0 U	**3.6 J**	**0.69 J**	**1.8 J**	**1.0 J**	**3.1 J**	**5.4 J**	**3.0 J**	**3.0 J**
Nickel	SW6010B	ug/L	NE	39	**8.3 J**	**7.6 J**	**5.5 J**	**6.8 J**	< 10.0 U	**5.7 J**	**2.5 J**	**113**	**8.3 J**	**16.0**	**6.6 J**	< 10.0 U	**5.8 J**	**7.2 J**	< 10.0 U
Potassium	SW6010B	ug/L	NE	NE	**28,200**	**12,900**	**10,600**	**6,380**	**30,100**	**8,260**	**16,700**	**21,600**	**15,100**	**27,700**	**16,700**	**8,100**	**7,400**	**6,590**	**6,700**
Silicon	SW6010B	ug/L	NE	NE	**18,700**	**12,000**	**11,800**	**11,200**	**12,500**	**21,100**	**18,000**	**20,600**	**15,400**	**20,400**	**11,600**	**12,500**	**8,180**	**10,600**	**16,000**
Sodium	SW6010B	ug/L	NE	20,000	**191,000**	**112,000**	**128,000**	**76,400**	**56,400**	**188,000**	**121,000**	**378,000**	**191,000**	**227,000**	**106,000**	**27,500**	**105,000**	**123,000**	**68,400**
Strontium	SW6010B	ug/L	NE	1,200	**852**	**630**	**875**	**376**	**443**	**605**	**539**	**2,080**	**883**	**1,170**	**1,070**	**401**	**409**	**959**	**746**
Tin	SW6010B	ug/L	NE	1,200	**2.7 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**2.1 J**	**3.3 J**	**2.0 J**	**2.1 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U	< 10.0 U	**3.5 J**	< 10.0 U	< 10.0 U	**15.1**	< 10.0 U	**4.2 J**	**6.6 J**	< 10.0 U	< 10.0 U	**0.90 J**	**1.1 J**	< 10.0 U	**15.6**
Zinc	SW6010B	ug/L	NE	600	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**19.7 J**	**27.7**	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**7.4 J**	< 20.0 U	< 20.0 U	< 20.0 U
Antimony	SW6020	ug/L	6	0.78	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.38 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.15 J**	< 1.0 U	< 1.0 U
Arsenic	SW6020	ug/L	10	0.052	**8.4**	**0.33 J**	**0.45 J**	**0.24 J**	**0.58 J**	**31.2**	**1.4**	**48.4**	**0.62 J**	**35.6**	**12.3**	**12.5**	**1.2**	**2.2**	**2.4**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	**0.034 J**	**0.19 J**	< 0.20 U	< 0.20 U	**0.039 J**	< 0.20 U	**0.023 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.037 J**
Cadmium	SW6020	ug/L	5	0.92	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.12 J**	< 0.20 U	< 0.20 U
Chromium	SW6020	ug/L	100	NE	**0.91 J**	< 2.0 U	< 2.0 U	**0.24 J**	**0.31 J**	< 2.0 U	**0.24 J**	**6.3**	**0.68 J**	**0.93 J**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Chromium (VI)	SW7199	ug/L	100	0.035	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U
Chromium (III)	CALC	ug/L	100	2,200	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**6.2 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Copper	SW6020	ug/L	1,300	80	< 1.0 U	**0.59 J**	**1.0**	**0.46 J**	**0.56 J**	**1.7**	< 1.0 U	**1.4 J+**	< 1.0 U	**1.0 J+**	**0.48 J**	**0.44 J**	< 1.0 U	**0.45 J**	**2.1**
Lead	SW6020	ug/L	15	15	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.9**	< 1.0 U	**0.18 J**	**0.35 J**	**0.23 J**	< 1.0 U	**0.21 J**	**0.22 J**	< 1.0 U	**0.92 J**
Selenium	SW6020	ug/L	50	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.68 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.31 J**	< 1.0 U	< 1.0 U
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	< 1.0 U	**0.39 J**	**0.13 J**	**0.15 J**	**0.51 J**	< 1.0 U	< 1.0 U	**0.16 J**	< 1.0 U	**0.11 J**	**0.17 J**	< 1.0 U	< 1.0 U	**0.19 J**
Uranium	SW6020	ug/L	30	0.4	**0.14 J**	**0.20 J**	**0.29 J**	**0.093 J**	**0.047 J**	**0.23 J**	**0.23 J**	< 1.0 U	**0.39 J**	**0.17 J**	**1.4**	**0.34 J**	**2.0**	**6.8**	**2.4**
Vanadium	SW6020	ug/L	NE	8.6	**0.44 J**	**0.24 J**	**0.42 J**	< 1.0 U	**0.22 J**	**1.0**	**0.29 J**	**4.6**	**1.2**	**0.56 J**	**0.26 J**	**0.20 J**	**0.43 J**	< 1.0 U	**1.5**
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cyanide CN-	SW9012A	ug/L	200	0.15	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**2.9 J**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U

Notes and definitions are presented on Page 7

Table 2: Q4 2020 Validated Data for Total Metals
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				Sample Location	I-68	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS	PZ-102-SS	PZ-103-SS	PZ-103-SS	PZ-104-KS
				Sample Depth (ft BGS)	21.2 - 31.2	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63	79.7 - 89.5	134.7 - 144.5	134.7 - 144.5	397.37 - 407.17
				Sample Type	N	N	N	N	FD	N	N	N	N	N	N	N	FD	N
				Sample Date	11-24-2020	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020	11-06-2020	12-03-2020	12-03-2020	12-03-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1														
Metals, Total																		
Aluminum	SW6010B	ug/L	NE	2,000	**51.1 J**	**58.3 J**	< 200 U	< 200 U	< 200 U	< 200 U	**187 J**	**107 J**	< 200 U	< 200 U	< 200 U	**122 J**	**130 J**	< 200 U
Barium	SW6010B	ug/L	2,000	380	**328**	**3,520**	**432**	**8,250**	**8,300**	**7.3 J**	**345**	**69.6**	**458**	**70.4**	**174**	**998**	**1,000**	**126**
Boron	SW6010B	ug/L	NE	400	**145**	**2,070**	**1,790**	**1,080**	**1,090**	**599**	**31.4 J**	**115**	**681**	**148**	**124**	**524**	**527**	**130**
Calcium	SW6010B	ug/L	NE	NE	**242,000**	**56,800**	**121,000**	**218,000**	**221,000**	**20,100**	**75,500**	**88,500**	**139,000**	**118,000**	**107,000**	**320,000**	**327,000**	**85,100**
Cobalt	SW6010B	ug/L	NE	0.6	**11.0**	**19.4**	**1.5 J**	**6.7**	**6.7**	< 5.0 U	< 5.0 U	< 5.0 U	**1.4 J**	< 5.0 U	< 5.0 U	< 5.0 U	**0.86 J**	< 5.0 U
Hardness as CaCO3	SW6010B	ug/L	NE	NE	**787,000**	**366,000**	**538,000**	**931,000**	**939,000**	**99,900**	**328,000**	**422,000**	**679,000**	**462,000**	**428,000**	**1,340,000**	**1,360,000**	**380,000**
Iron	SW6010B	ug/L	NE	1,400	**88.5**	**49,400**	**18,800**	**10,800**	**10,700**	**171**	**281**	**93.5**	**1,230**	**432**	**1,280**	**20,500**	**20,600**	**1,440**
Lithium	SW6010B	ug/L	NE	4	**23.8**	**161**	**23.7**	**48.4**	**48.4**	**136**	**11.4 J**	**44.1**	**37.8**	**51.5**	**52.4**	**64.2**	**62.6**	**31.8**
Magnesium	SW6010B	ug/L	NE	NE	**44,400**	**54,400**	**57,500**	**94,000**	**94,400**	**12,100**	**33,800**	**48,800**	**80,900**	**40,900**	**39,000**	**131,000**	**131,000**	**40,700**
Manganese	SW6010B	ug/L	NE	43	**3,660**	**227**	**191**	**350**	**351**	**16.9**	**106**	**6.8**	**62.3**	**7.7**	**118**	**926**	**926**	**17.7**
Molybdenum	SW6010B	ug/L	NE	10	**1.1 J**	**7.5 J**	**0.65 J**	< 10.0 U	< 10.0 U	< 10.0 U	**2.9 J**	**1.1 J**	**0.88 J**	**2.0 J**	< 10.0 U	< 10.0 U	< 10.0 U	**1.3 J**
Nickel	SW6010B	ug/L	NE	39	**20.9**	**419**	**14.2**	**8.6 J**	**8.6 J**	< 10.0 U	**4.5 J**	**9.1 J**	**11.4**	**2.0 J**	< 10.0 U	**54.6**	**55.0**	< 10.0 U
Potassium	SW6010B	ug/L	NE	NE	**4,610**	**221,000**	**67,500**	**29,400**	**29,200**	**5,090**	**2,460**	**2,520**	**12,700**	**2,980**	**2,540**	**7,410**	**7,540**	**2,050**
Silicon	SW6010B	ug/L	NE	NE	**12,000**	**4,920**	**10,600**	**10,300**	**10,600**	**4,170**	**6,360**	**6,070**	**13,200**	**8,080**	**7,770**	**20,800**	**21,000**	**4,430**
Sodium	SW6010B	ug/L	NE	20,000	**130,000**	**234,000**	**134,000**	**258,000**	**262,000**	**234,000**	**7,080**	**9,810**	**95,700**	**14,600**	**14,000**	**121,000**	**121,000**	**37,200**
Strontium	SW6010B	ug/L	NE	1,200	**630**	**1,310**	**502**	**2,440**	**2,450**	**2,920**	**399**	**1,460**	**2,100**	**1,480**	**806**	**7,420**	**7,480**	**2,960**
Tin	SW6010B	ug/L	NE	1,200	< 10.0 U	**68.9**	**3.7 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**2.0 J**	**1.7 J**	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	**1.1 J**	**11.5**	**0.94 J**	**1.0 J**	**1.6 J**	< 10.0 U	**4.5 J**	**1.6 J**	< 10.0 U	< 10.0 U	< 10.0 U	**2.0 J**	**2.1 J**	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	< 20.0 U	**397**	< 20.0 U	< 20.0 U	< 20.0 U	**9.7 J**	**161**	**44.4**	**10.8 J**	**56.8**	**17.3 J**	**8.9 J**	**9.6 J**	< 20.0 U
Antimony	SW6020	ug/L	6	0.78	**0.35 J**	**0.37 J**	**0.17 J**	**0.12 J**	**0.13 J**	< 1.0 U	**0.33 J**	**0.44 J**	< 1.0 U	**0.10 J**	< 1.0 U	**0.16 J**	**0.17 J**	< 1.0 U
Arsenic	SW6020	ug/L	10	0.052	**0.72 J**	**257**	**1.5**	**3.0**	**3.0**	< 1.0 U	**1.2**	< 1.0 U	**10.8**	**0.70 J**	< 1.0 U	**3.7**	**3.5**	**0.41 J**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	< 0.20 U	< 0.20 U	**0.068 J**	**0.071 J**	< 0.20 U	< 0.20 U	< 0.20 U	**0.033 J**	< 0.20 U	< 0.20 U	**0.095 J**	**0.098 J**	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	**0.81**	**0.92**	**0.025 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.026 J**	**0.052 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Chromium	SW6020	ug/L	100	NE	**0.20 J**	**19.1**	**1.1 J**	**8.5**	**8.9**	**0.24 J**	< 2.0 U	< 2.0 U	< 2.0 U	**0.28 J**	**0.25 J**	**2.3**	**2.1**	< 2.0 U
Chromium (VI)	SW7199	ug/L	100	0.035	< 0.100 U	**2.29**	**0.0637 J**	**0.291**	**0.109**	**0.0461 J**	< 0.100 U	< 0.100 U	**0.0683 J**	< 0.100 U	< 0.100 U	**0.105**	**0.0855 J**	< 0.100 U
Chromium (III)	CALC	ug/L	100	2,200	< 10 U	**17**	< 10 U	**8.2 J**	**8.8 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Copper	SW6020	ug/L	1,300	80	< 1.0 U	**1.7**	**1.3**	**1.4**	**1.5**	**0.25 J**	< 1.0 U	**2.2**	**0.78 J**	**1.3**	**0.44 J**	**1.1 J+**	< 1.0 U	< 1.0 U
Lead	SW6020	ug/L	15	15	**0.23 J**	**15.4**	**0.92 J**	< 1.0 U	< 1.0 U	< 1.0 U	**0.19 J**	**0.16 J**	< 1.0 U	< 1.0 U	< 1.0 U	**0.16 J**	**0.16 J**	**0.046 J**
Selenium	SW6020	ug/L	50	10	**1.7**	**0.64 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.14 J**	**0.12 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.099 J**	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	**3.1**	**0.010 J**	< 1.0 U	< 1.0 U	< 1.0 U	**0.093 J**	**1.3**	**4.1**	**0.22 J**	**1.9**	**0.24 J**	**0.19 J**	**0.19 J**	< 1.0 U
Vanadium	SW6020	ug/L	NE	8.6	**1.7**	**16.3**	**0.59 J**	**3.4**	**3.5**	< 1.0 U	**0.43 J**	**0.46 J**	**2.3**	< 1.0 U	< 1.0 U	**6.9**	**6.8**	< 1.0 U
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cyanide CN-	SW9012A	ug/L	200	0.15	**2.0 J**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U

Notes and definitions are presented on Page 7

Table 2: Q4 2020 Validated Data for Total Metals
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				Sample Location	PZ-104-SD	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS	PZ-107-SS	PZ-109-SS	PZ-109-SS	PZ-111-KS	PZ-111-SD	PZ-111-SS
				Sample Depth (ft BGS)	235.2 - 245	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5	357.15 - 366.96	199.4 - 209.2	105.5 - 115.5
				Sample Type	N	N	N	N	N	FD	N	N	N	FD	N	N	N
				Sample Date	11-04-2020	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020	12-03-2020	11-10-2020	11-10-2020	11-09-2020	11-09-2020	11-09-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Metals, Total																	
Aluminum	SW6010B	ug/L	NE	2,000	**83.7 J**	< 200 U	< 200 U	**67.1 J**	**43.6 J**	**44.9 J**	< 200 U	< 200 U	< 200 U	< 200 U	**120 J**	< 200 U	< 200 U
Barium	SW6010B	ug/L	2,000	380	**487**	**97.0**	**266**	**41.4**	**140**	**139**	**944**	**950**	**56.8**	**57.9**	< 10.0 U	**105**	**655**
Boron	SW6010B	ug/L	NE	400	**370**	**155**	**99.4 J**	**182**	< 100 U	< 100 U	**211**	**1,160**	**183**	**182**	**1,090**	**52.3 J**	**620**
Calcium	SW6010B	ug/L	NE	NE	**92,900**	**84,300**	**113,000**	**56,000**	**105,000**	**103,000**	**125,000**	**242,000**	**90,600**	**90,000**	**8,010**	**90,800**	**220,000**
Cobalt	SW6010B	ug/L	NE	0.6	**0.65 J**	**0.86 J**	**0.66 J**	< 5.0 U	< 5.0 U	< 5.0 U	**1.1 J**	**2.3 J**	< 5.0 U	< 5.0 U	**0.90 J**	< 5.0 U	**2.9 J**
Hardness as CaCO3	SW6010B	ug/L	NE	NE	**430,000**	**404,000**	**515,000**	**287,000**	**476,000**	**467,000**	**559,000**	**1,130,000**	**434,000**	**433,000**	**42,100**	**435,000**	**1,000,000**
Iron	SW6010B	ug/L	NE	1,400	**4,310**	**1,000**	**1,030**	**980**	**956**	**929**	**3,040**	**5,310**	**107 J+**	**114 J+**	**728**	**2,580**	**2,160**
Lithium	SW6010B	ug/L	NE	4	**17.7 J**	**36.5**	**19.0 J**	**44.5**	**20.4**	**22.3**	**41.6**	**49.2**	**22.3**	**23.6**	**199**	**12.2 J**	**42.3**
Magnesium	SW6010B	ug/L	NE	NE	**48,100**	**47,000**	**56,500**	**35,800**	**51,800**	**50,800**	**60,000**	**127,000**	**50,300**	**50,500**	**5,370**	**50,500**	**110,000**
Manganese	SW6010B	ug/L	NE	43	**96.7**	**28.4**	**291**	**5.6**	**41.2**	**38.9**	**21.7**	**94.7**	< 5.0 U	< 5.0 U	**8.2**	**9.3**	**27.9**
Molybdenum	SW6010B	ug/L	NE	10	**0.90 J**	**9.5 J**	**4.0 J**	< 10.0 U	**3.8 J**	**1.9 J**	**5.7 J**	**0.87 J**	**2.0 J**	**2.1 J**	**1.7 J**	**1.9 J**	< 10.0 U
Nickel	SW6010B	ug/L	NE	39	**20.3**	**4.9 J**	**10.9**	**5.9 J**	**1.9 J**	**2.8 J**	**7.4 J**	**41.1**	< 10.0 U	< 10.0 U	**2.1 J**	< 10.0 U	**20.0**
Potassium	SW6010B	ug/L	NE	NE	**12,500**	**2,190**	**2,240**	**1,940**	**3,260**	**3,140**	**4,720**	**15,900**	**3,630**	**3,430**	**6,690**	**1,650**	**6,750**
Silicon	SW6010B	ug/L	NE	NE	**11,400**	**10,500**	**14,200**	**3,840**	**7,620**	**8,300**	**8,150**	**16,900**	**5,040**	**5,080**	**4,270**	**6,960**	**12,200**
Sodium	SW6010B	ug/L	NE	20,000	**65,900**	**14,300**	**46,700**	**59,300**	**22,700**	**22,400**	**84,500**	**192,000**	**9,900**	**9,760**	**386,000**	**17,500**	**235,000**
Strontium	SW6010B	ug/L	NE	1,200	**631**	**1,010**	**847**	**5,170**	**1,430**	**1,420**	**1,040**	**1,470**	**3,020**	**3,030**	**1,550**	**1,120**	**2,880**
Tin	SW6010B	ug/L	NE	1,200	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**1.8 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**1.5 J**	< 10.0 U	< 10.0 U	**1.2 J**	< 10.0 U	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	**47.2**	**102**	**44.6**	**25.1**	**7.6 J**	**8.2 J**	**9.2 J**	< 20.0 U	**104**	**96.3**	**11.0 J**	< 20.0 U	< 20.0 U
Antimony	SW6020	ug/L	6	0.78	**0.11 J**	**0.13 J**	**0.12 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.24 J**	**0.20 J**	**0.19 J**	**0.12 J**	< 1.0 U	**0.14 J**
Arsenic	SW6020	ug/L	10	0.052	**14.1**	**2.0**	**0.79 J**	**1.6**	**0.78 J**	**0.83 J**	**1.1**	**5.0**	**0.74 J**	**0.71 J**	**2.4**	**3.3**	**1.9**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.025 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	< 0.20 U	**0.025 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.025 J**	< 0.20 U	**0.17 J**	**0.14 J**	< 0.20 U	< 0.20 U	< 0.20 U
Chromium	SW6020	ug/L	100	NE	**3.3**	< 2.0 U	**0.73 J**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**7.9**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Chromium (VI)	SW7199	ug/L	100	0.035	**0.229**	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	**0.0578 J**	**0.0974 J**	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U
Chromium (III)	CALC	ug/L	100	2,200	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**7.8 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Copper	SW6020	ug/L	1,300	80	**6.7**	**17.0**	**2.5**	< 1.0 U	< 1.0 U	**1.2 J+**	**0.62 J**	< 1.0 U	**1.1**	**0.90 J**	**0.32 J**	**0.76 J**	**0.60 J**
Lead	SW6020	ug/L	15	15	**0.47 J**	**0.32 J**	< 1.0 U	**0.25 J**	< 1.0 U	< 1.0 U	< 1.0 U	**0.068 J**	< 1.0 U	< 1.0 U	**0.057 J**	**0.038 J**	< 1.0 U
Selenium	SW6020	ug/L	50	10	< 1.0 U	**0.45 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.41 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**0.026 J**	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	**0.079 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.40 J**	**0.12 J**	**0.15 J**
Uranium	SW6020	ug/L	30	0.4	**0.19 J**	**1.7**	**1.7**	**1.5**	< 1.0 U	< 1.0 U	**0.52 J**	**0.44 J**	**0.52 J**	**0.51 J**	**6.6**	**0.59 J**	**0.60 J**
Vanadium	SW6020	ug/L	NE	8.6	**2.7**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.55 J**	**9.5**	**0.21 J**	< 1.0 U	< 1.0 U	< 1.0 U	**0.45 J**
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cyanide CN-	SW9012A	ug/L	200	0.15	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 R	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U

Notes and definitions are presented on Page 7

Table 2: Q4 2020 Validated Data for Total Metals
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				Sample Location	PZ-113-AD	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS	PZ-115-SS	PZ-116-SS	PZ-200-SS	PZ-201A-SS	PZ-202-SS	PZ-203-SS	PZ-204A-SS	PZ-204-SS
				Sample Depth (ft BGS)	98.6 - 108.4	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48	74.68 - 84.48	151.4 - 161	9.62 - 97.64	80 - 89.8	40.2 - 89.1	99.6 - 109.4	79.5 - 89.1	10.95 - 89.35
				Sample Type	N	FD	N	N	N	N	FD	N	N	N	N	N	N	N
				Sample Date	11-05-2020	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020	11-24-2020	12-04-2020	12-02-2020	12-04-2020	12-02-2020	11-16-2020	12-04-2020	12-04-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Metals, Total																		
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	**77.8 J**	< 200 U	< 200 U	< 200 U	< 200 U	**69.1 J**	< 200 U
Barium	SW6010B	ug/L	2,000	380	**1,540**	**1,550**	**900**	**184**	**996**	**514**	**506**	**108**	**607**	**123**	**2,800**	**111**	**493**	**174**
Boron	SW6010B	ug/L	NE	400	**883**	**880**	**289**	**37.9 J**	**246**	**469**	**458**	**421**	**44.4 J**	**38.4 J**	**402**	**140**	**404**	**82.2 J**
Calcium	SW6010B	ug/L	NE	NE	**192,000**	**197,000**	**188,000**	**57,000**	**219,000**	**225,000**	**224,000**	**52,700**	**276,000**	**94,600**	**491,000**	**101,000**	**350,000**	**73,600**
Cobalt	SW6010B	ug/L	NE	0.6	**1.3 J**	**1.5 J**	**9.6**	< 5.0 U	**1.4 J**	**28.5**	**27.5**	**0.66 J**	**14.0**	< 5.0 U	**2.9 J**	< 5.0 U	**5.8**	< 5.0 U
Hardness as CaCO3	SW6010B	ug/L	NE	NE	**743,000**	**758,000**	**672,000**	**263,000**	**770,000**	**984,000**	**973,000**	**284,000**	**1,230,000**	**431,000**	**2,100,000**	**445,000**	**1,360,000**	**391,000**
Iron	SW6010B	ug/L	NE	1,400	**28,100**	**28,500**	**7,350**	**210**	**68,300**	**3,360**	**3,320**	**114**	**3,480**	**156**	**50,300**	**1,960**	**14,800**	**173**
Lithium	SW6010B	ug/L	NE	4	**29.5**	**28.6**	**20.6**	**10.3 J**	**13.2 J**	**25.7**	**27.0**	**42.6**	**28.2**	< 20.0 U	**44.9**	**37.1**	**43.7**	**40.0**
Magnesium	SW6010B	ug/L	NE	NE	**64,000**	**64,600**	**49,400**	**29,400**	**54,400**	**102,000**	**100,000**	**37,000**	**131,000**	**47,300**	**213,000**	**47,000**	**119,000**	**50,200**
Manganese	SW6010B	ug/L	NE	43	**420**	**425**	**5,100**	**36.8**	**4,170**	**91.8**	**88.3**	**259**	**1,950**	**52.5**	**1,620**	**16.7**	**3,650**	**17.5**
Molybdenum	SW6010B	ug/L	NE	10	**1.7 J**	< 10.0 U	**1.9 J**	**16.1**	**0.86 J**	**0.72 J**	**0.52 J**	**3.4 J**	**1.8 J**	**2.2 J**	**0.65 J**	**1.8 J**	**3.2 J**	**2.1 J**
Nickel	SW6010B	ug/L	NE	39	**7.5 J**	**6.7 J**	**16.2**	**1.3 J**	< 10.0 U	**67.9**	**68.0**	**2.4 J**	**40.7**	< 10.0 U	**24.1**	**7.1 J**	**71.6**	< 10.0 U
Potassium	SW6010B	ug/L	NE	NE	**15,300**	**15,400**	**10,400**	**1,550**	**6,500**	**5,750**	**5,490**	**4,220**	**2,420**	**2,300**	**7,050**	**2,490**	**7,720**	**2,440**
Silicon	SW6010B	ug/L	NE	NE	**17,300**	**17,300**	**14,800**	**7,100**	**23,400**	**20,200**	**20,100**	**8,420**	**21,500**	**12,700**	**27,600**	**6,440**	**18,700**	**11,300**
Sodium	SW6010B	ug/L	NE	20,000	**178,000**	**177,000**	**55,700**	**20,400**	**203,000**	**213,000**	**207,000**	**23,400**	**48,100**	**12,400**	**381,000**	**10,300**	**284,000**	**22,000**
Strontium	SW6010B	ug/L	NE	1,200	**625**	**626**	**642**	**580**	**886**	**1,820**	**1,810**	**4,840**	**579**	**478**	**1,120**	**818**	**701**	**1,880**
Tin	SW6010B	ug/L	NE	1,200	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**2.5 J**	< 10.0 U	**1.9 J**	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**1.1 J**	**1.2 J**	**0.92 J**	**1.3 J**	< 10.0 U	**3.5 J**	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**78.7**	< 20.0 U	< 20.0 U	< 20.0 U	**39.8**
Antimony	SW6020	ug/L	6	0.78	**0.10 J**	**0.10 J**	**0.077 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.17 J**	**0.12 J**	< 1.0 U	**0.19 J**	**0.17 J**
Arsenic	SW6020	ug/L	10	0.052	**2.7**	**2.8**	**15.6**	**0.84 J**	**92.7**	**6.2**	**6.1**	**0.74 J**	**5.8**	**1.2**	**40.7**	**2.4**	**17.7**	**0.40 J**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.057 J**	< 0.20 U	**0.026 J**	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.035 J**
Chromium	SW6020	ug/L	100	NE	**0.50 J**	**0.49 J**	**0.28 J**	**0.30 J**	< 2.0 U	**0.53 J**	**0.43 J**	< 2.0 U	**0.11 J**	**0.38 J**	**3.7**	< 2.0 U	**2.7**	< 2.0 U
Chromium (VI)	SW7199	ug/L	100	0.035	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	**0.152**	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	**0.117**	**0.0490 J**	< 0.100 U	**0.0780 J**	**0.0403 J**
Chromium (III)	CALC	ug/L	100	2,200	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Copper	SW6020	ug/L	1,300	80	**0.57 J**	**0.60 J**	**0.47 J**	**0.29 J**	**0.58 J**	**1.1 J+**	**1.1 J+**	**0.99 J**	**0.80 J**	**5.6**	**1.4**	< 1.0 U	**1.5**	**2.0**
Lead	SW6020	ug/L	15	15	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.14 J**	< 1.0 U	**0.28 J**	< 1.0 U	< 1.0 U	**0.090 J**	**0.16 J**
Selenium	SW6020	ug/L	50	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.61 J**	< 1.0 U	**0.56 J**	< 1.0 U
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	**0.13 J**	**0.12 J**	**2.6**	**1.2**	< 1.0 U	**4.2**	**4.4**	**2.7**	**0.87 J**	**3.9**	**0.14 J**	< 1.0 U	**4.2**	**2.6**
Vanadium	SW6020	ug/L	NE	8.6	**0.32 J**	**0.29 J**	**0.58 J**	< 1.0 U	**0.48 J**	**0.86 J**	**0.80 J**	**0.53 J**	**0.46 J**	< 1.0 U	**13.5**	**0.40 J**	**3.8**	**0.33 J**
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cyanide CN-	SW9012A	ug/L	200	0.15	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 R	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U

Notes and definitions are presented on Page 7

Table 2: Q4 2020 Validated Data for Total Metals
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				Sample Location	PZ-205-AS	PZ-205-SS	PZ-206-SS	PZ-207-AS	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SD	PZ-211-SS	PZ-302-AI	PZ-302-AS	PZ-303-AS	PZ-304-AI	PZ-304-AS	S-5
				Sample Depth (ft BGS)	38.55 - 48.35	88.57 - 98.37	115 - 124.8	34.9 - 39.7	140 - 150	138 - 148	237 - 247	237 - 247	137 - 147	32.6 - 42.4	12.2 - 22	16 - 25.8	39 - 48.8	17.1 - 26.9	30 - 40
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-11-2020	11-11-2020	11-10-2020	12-01-2020	11-04-2020	11-03-2020	11-03-2020	11-05-2020	12-04-2020	12-01-2020	11-30-2020	12-04-2020	12-02-2020	12-02-2020	11-20-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1															
Metals, Total																			
Aluminum	SW6010B	ug/L	NE	2,000	101 J	< 200 U	< 200 U	< 200 U	87.5 J	< 200 U	< 200 U	NA	< 200 U	< 200 U	619	< 200 U	< 200 U	< 200 U	< 200 U
Barium	SW6010B	ug/L	2,000	380	5,990	143	73.8	673	97.2	98.1	137	NA	56.3	512	446	694	1,450	2,740	647
Boron	SW6010B	ug/L	NE	400	2,800	58.1 J	168	1,140	264	128	100	NA	430	383	573	245	550	1,940	3,120
Calcium	SW6010B	ug/L	NE	NE	928,000	101,000	121,000	147,000	68,500	89,700	91,600	NA	65,800	221,000	171,000	246,000	260,000	66,200	67,800
Cobalt	SW6010B	ug/L	NE	0.6	10.4	< 5.0 U	< 5.0 U	2.9 J	< 5.0 U	0.75 J	< 5.0 U	NA	0.65 J	12.1	3.2 J	2.1 J	1.9 J	2.4 J	7.2
Hardness as CaCO3	SW6010B	ug/L	NE	NE	3,410,000	479,000	628,000	655,000	363,000	410,000	413,000	NA	339,000	780,000	670,000	864,000	947,000	412,000	462,000
Iron	SW6010B	ug/L	NE	1,400	92,800	348	2,710	22,800	765	1,460	133	NA	352	4,270	40,900	74,800	19,400	20,100	17,800
Lithium	SW6010B	ug/L	NE	4	100	22.6	36.3	24.1	38.4	22.6	25.4	NA	52.4	30.0	< 20.0 U	28.2	37.2	25.4	32.2
Magnesium	SW6010B	ug/L	NE	NE	265,000	55,100	79,300	69,700	46,600	45,200	44,800	NA	42,500	55,300	59,000	60,600	72,300	59,900	71,100
Manganese	SW6010B	ug/L	NE	43	1,250	< 5.0 U	54.4	77.7	37.4	86.5	< 5.0 U	NA	26.2	368	2,210	1,500	1,140	65.2	158
Molybdenum	SW6010B	ug/L	NE	10	0.61 J	2.3 J	< 10.0 U	0.70 J	5.5 J	1.8 J	28.3	NA	7.9 J	12.3	4.1 J	0.70 J	0.96 J	54.1	1.3 J
Nickel	SW6010B	ug/L	NE	39	21.8	< 10.0 U	2.3 J	12.5	2.7 J	4.1 J	3.4 J	NA	1.3 J	27.0	9.9 J	8.0 J	15.8	29.2	40.5
Potassium	SW6010B	ug/L	NE	NE	24,800	1,730	3,880	52,100	3,490	5,590	3,770	NA	3,950	7,920	7,500	4,460	10,700	128,000	235,000
Silicon	SW6010B	ug/L	NE	NE	15,200	9,510	7,460	18,200	5,850	9,220	6,750	NA	5,060	13,700	19,000	24,400	18,800	23,200	18,600
Sodium	SW6010B	ug/L	NE	20,000	673,000	14,800	22,200	214,000	10,800	30,600	50,600	NA	21,100	59,800	45,900	47,400	139,000	325,000	502,000
Strontium	SW6010B	ug/L	NE	1,200	5,170	482	4,680	790	4,790	1,480	1,410	NA	4,480	910	1,030	681	1,010	1,030	385
Tin	SW6010B	ug/L	NE	1,200	5.3 J	< 10.0 U	< 10.0 U	2.1 J	< 10.0 U	< 10.0 U	< 10.0 U	NA	< 10.0 U	< 10.0 U	1.9 J	2.0 J	< 10.0 U	< 10.0 U	18.6
Titanium	SW6010B	ug/L	NE	NE	8.1 J	< 10.0 U	< 10.0 U	1.1 J	< 10.0 U	< 10.0 U	< 10.0 U	NA	< 10.0 U	< 10.0 U	15.4	< 10.0 U	< 10.0 U	1.2 J	4.7 J
Zinc	SW6010B	ug/L	NE	600	< 20.0 U	26.2	< 20.0 U	< 20.0 U	12.4 J	19.6 J	39.8	NA	46.0	< 20.0 U	13.0 J	< 20.0 U	< 20.0 U	< 20.0 U	8.8 J
Antimony	SW6020	ug/L	6	0.78	0.55 J	< 1.0 U	< 1.0 U	0.17 J	0.080 J	< 1.0 U	0.58 J	NA	< 1.0 U	< 1.0 U	0.14 J	0.11 J	< 1.0 U	0.23 J	0.59 J
Arsenic	SW6020	ug/L	10	0.052	34.9	0.65 J	1.9	7.0	1.6	0.92 J	0.90 J	NA	1.6	2.6	99.9	71.2	0.82 J	249	11.9
Beryllium	SW6020	ug/L	4	2.5	0.025 J	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	NA	< 0.20 U	< 0.20 U	0.047 J	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	NA	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.28
Chromium	SW6020	ug/L	100	NE	7.9	< 2.0 U	< 2.0 U	1.7 J	0.85 J	0.74 J	0.23 J	NA	0.28 J	0.20 J	1.2 J	< 2.0 U	0.55 J	2.5	5.1
Chromium (VI)	SW7199	ug/L	100	0.035	< 2.00 U	< 0.100 U	< 0.100 U	0.0737 J	< 0.100 U	< 0.100 U	< 0.100 U	NA	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	< 0.100 U	0.117	0.182
Chromium (III)	CALC	ug/L	100	2,200	7.9 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Copper	SW6020	ug/L	1,300	80	2.7	1.1	0.51 J	< 1.0 U	0.73 J	1.1 J+	1.1 J+	NA	< 1.0 U	< 1.0 U	1.9	0.76 J	< 1.0 U	< 1.0 U	< 1.0 U
Lead	SW6020	ug/L	15	15	0.42 J	0.054 J	< 1.0 U	< 1.0 U	< 1.0 U	0.040 J	0.091 J	NA	< 1.0 U	< 1.0 U	0.62 J	0.21 J	< 1.0 U	0.32 J	2.5
Selenium	SW6020	ug/L	50	10	0.72 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.45 J	< 1.0 U	NA	< 1.0 U	< 1.0 U	0.45 J	0.63 J	< 1.0 U	0.62 J	0.36 J
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	NA	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.048 J	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	0.18 J	< 1.0 U	0.11 J	< 1.0 U	0.066 J	< 1.0 U	0.12 J	NA	< 1.0 U	< 1.0 U	0.27 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	0.041 J	0.83 J	0.17 J	0.016 J	0.96 J	0.28 J	3.3	NA	1.0	10.7	0.44 J	0.027 J	0.28 J	0.013 J	< 1.0 U
Vanadium	SW6020	ug/L	NE	8.6	6.0	< 1.0 U	0.26 J	1.3	0.15 J	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	2.6	1.4	0.64 J	4.6	2.3
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	NA	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cyanide CN-	SW9012A	ug/L	200	0.15	2.8 J-	< 5.0 R	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.8 J	2.6 J-

Notes and definitions are presented on Page 7

Table 2: Q4 2020 Validated Data for Total Metals
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				Sample Location	S-5	S-10	S-82	S-84
				Sample Depth (ft BGS)	30 - 40	32 - 52	15.5 - 25.5	20.9 - 30.9
				Sample Type	FD	N	N	N
				Sample Date	11-20-2020	11-13-2020	11-23-2020	11-10-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1				
Metals, Total								
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U	**960**	< 200 U	< 200 U
Barium	SW6010B	ug/L	2,000	380	**645**	**177 J**	**1,130**	**817**
Boron	SW6010B	ug/L	NE	400	**3,090**	**1,260**	**3,680**	**213**
Calcium	SW6010B	ug/L	NE	NE	**68,100**	**205,000**	**199,000**	**137,000**
Cobalt	SW6010B	ug/L	NE	0.6	**7.5**	**1.5 J**	**5.1**	**8.9**
Hardness as CaCO3	SW6010B	ug/L	NE	NE	**466,000**	**1,250,000**	**841,000**	**557,000**
Iron	SW6010B	ug/L	NE	1,400	**18,000**	**160,000**	**31,200**	**52,800**
Lithium	SW6010B	ug/L	NE	4	**30.9**	**62.1**	**55.8**	**19.6 J**
Magnesium	SW6010B	ug/L	NE	NE	**71,900**	**180,000**	**83,400**	**51,900**
Manganese	SW6010B	ug/L	NE	43	**159**	**8,350**	**1,510**	**388**
Molybdenum	SW6010B	ug/L	NE	10	**0.83 J**	< 10.0 U	**12.7**	**9.4 J**
Nickel	SW6010B	ug/L	NE	39	**40.0**	**15.2**	**22.9**	**12.7**
Potassium	SW6010B	ug/L	NE	NE	**234,000**	**47,100 J**	**21,100**	**4,780**
Silicon	SW6010B	ug/L	NE	NE	**17,300**	**20,400**	**20,000**	**24,400**
Sodium	SW6010B	ug/L	NE	20,000	**502,000**	**231,000**	**297,000**	**30,800**
Strontium	SW6010B	ug/L	NE	1,200	**383**	**1,140 J**	**1,350**	**622**
Tin	SW6010B	ug/L	NE	1,200	**17.6**	< 10.0 U	< 10.0 U	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	**5.3 J**	< 10.0 U	< 10.0 U	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	**9.1 J**	< 20.0 U	< 20.0 U	< 20.0 U
Antimony	SW6020	ug/L	6	0.78	**0.58 J**	**0.11 J**	< 1.0 U	< 1.0 U
Arsenic	SW6020	ug/L	10	0.052	**11.7**	**51.0**	**214**	**395 J**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	**0.68**	< 0.20 U	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	**0.26**	< 0.20 U	< 0.20 U	< 0.20 U
Chromium	SW6020	ug/L	100	NE	**5.4**	**1.2 J**	**0.70 J**	< 2.0 U
Chromium (VI)	SW7199	ug/L	100	0.035	**0.149**	**0.0905 J**	< 0.100 U	< 0.100 UJ
Chromium (III)	CALC	ug/L	100	2,200	**5.3 J**	< 10 U	< 10 U	< 10 U
Copper	SW6020	ug/L	1,300	80	< 1.0 U	**2.2**	< 1.0 U	**0.66 J**
Lead	SW6020	ug/L	15	15	**2.5**	< 1.0 U	**0.14 J**	< 1.0 U
Selenium	SW6020	ug/L	50	10	**0.38 J**	< 1.0 U	**0.39 J**	< 1.0 U
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	**0.18 J**	< 1.0 U	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	< 1.0 U	**0.17 J**	**2.4**	**0.014 J**
Vanadium	SW6020	ug/L	NE	8.6	**2.4**	**4.1**	**0.80 J**	**0.40 J**
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cyanide CN-	SW9012A	ug/L	200	0.15	**2.6 J**	< 5.0 UJ	< 5.0 U	< 5.0 U

Notes and definitions are presented on Page 7

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

J+ = The result is an estimated concentration, but may be biased high.

J- = The result is an estimated concentration, but may be biased low.

R = Rejected, data not usable.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

Table 3: Q4 2020 Validated Data for Dissolved Metals
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65	I-66	I-67	I-68
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36	26.9 - 36.9	25.4 - 35.4	21.2 - 31.2
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020	11-05-2020	11-10-2020	11-24-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**																
Metals, Dissolved																				
Antimony	SW6020	ug/L	6	0.78	**0.15 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.44 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.30 J**
Arsenic	SW6020	ug/L	10	0.052	**7.6**	**0.32 J**	**0.37 J**	**0.24 J**	**0.52 J**	**30.5**	**1.4**	**50.4**	**0.96 J**	**30.5**	**13.1**	**11.7**	**1.0**	**2.1**	**2.5**	**0.57 J**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	**0.027 J**	**0.20**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.027 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.099 J**	< 0.20 U	< 0.20 U	**0.74**
Chromium	SW6020	ug/L	100	NE	**0.75 J**	**0.48 J**	**0.56 J**	**0.20 J**	< 2.0 U	**0.26 J**	**0.26 J**	**9.3**	**0.50 J**	**1.0 J**	**0.62 J**	< 2.0 U	< 2.0 U	< 2.0 U	**0.39 J**	< 2.0 U
Copper	SW6020	ug/L	1,300	80	**1.2 J+**	< 1.0 U	**1.2 J+**	< 1.0 U	< 1.0 U	< 1.0 U	**1.1 J+**	**1.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.1 J+**
Lead	SW6020	ug/L	15	15	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Selenium	SW6020	ug/L	50	10	**0.34 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.52 J**	**0.33 J**	**0.45 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.3**
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	**0.14 J**	**0.16 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.11 J**	**0.16 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	**0.15 J**	**0.19 J**	**0.29 J**	**0.087 J**	**0.041 J**	**0.10 J**	**0.25 J**	**0.14 J**	**0.35 J**	**0.17 J**	**1.4**	**0.31 J**	**2.0**	**6.9**	**2.0**	**3.3**
Vanadium	SW6020	ug/L	NE	8.6	**0.36 J**	**0.25 J**	**0.36 J**	< 1.0 U	**0.16 J**	< 1.0 U	**0.26 J**	**6.1**	**0.87 J**	**0.59 J**	**0.22 J**	< 1.0 U	**0.29 J**	< 1.0 U	**0.40 J**	**1.6**
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U	< 200 U	**142 J**	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
Barium	SW6010B	ug/L	2,000	380	**2,360**	**1,280**	**870**	**644**	**954**	**1,550**	**1,140**	**1,880**	**1,150**	**2,220**	**787**	**379**	**182**	**177 J**	**304**	**318**
Boron	SW6010B	ug/L	NE	400	**1,130**	**731**	**738**	**139**	**266**	**198**	**842**	**2,230**	**1,440**	**2,330**	**855**	**108**	**140**	**517 J**	**214**	**135**
Calcium	SW6010B	ug/L	NE	NE	**180,000**	**179,000**	**314,000**	**145,000**	**73,000**	**237,000**	**175,000**	**457,000**	**269,000**	**282,000**	**145,000**	**104,000**	**97,700**	**200,000**	**184,000**	**244,000**
Cobalt	SW6010B	ug/L	NE	0.6	**1.8 J**	**1.3 J**	**1.2 J**	< 5.0 U	< 5.0 U	**2.1 J**	**0.88 J**	**19.4**	**2.8 J**	**2.4 J**	**1.7 J**	< 5.0 U	**0.52 J**	**4.0 J**	< 5.0 U	**8.1**
Iron	SW6010B	ug/L	NE	1,400	**34,700**	**14,000**	**11,600**	**11,700**	**9,960**	**40,000**	**21,900**	**87,000**	**19,100**	**44,500**	**15,300**	**7,020**	< 50.0 U	**1,300 J**	**10,800**	< 50.0 U
Lithium	SW6010B	ug/L	NE	4	**30.0**	**35.0**	**28.6**	**22.9**	**20.5**	**27.9**	**27.4**	**52.6**	**42.2**	**58.1**	**29.3**	**19.8 J**	**12.9 J**	**27.1**	**23.7**	**16.1 J**
Magnesium	SW6010B	ug/L	NE	NE	**63,200**	**46,000**	**50,300**	**31,800**	**25,600**	**58,100**	**48,200**	**187,000**	**64,500**	**84,300**	**53,600**	**20,100**	**11,400**	**16,600**	**31,400**	**44,100**
Manganese	SW6010B	ug/L	NE	43	**375**	**450**	**496**	**370**	**284**	**683**	**318**	**2,550**	**519**	**467**	**509**	**599**	**118**	**2,380 J**	**1,360**	**2,940**
Molybdenum	SW6010B	ug/L	NE	10	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**0.65 J**	< 10.0 U	**3.5 J**	< 10.0 U	**1.3 J**	< 10.0 U	**3.3 J**	**4.4 J**	**2.9 J**	< 10.0 U	**0.73 J**
Nickel	SW6010B	ug/L	NE	39	**8.7 J**	**7.7 J**	**5.4 J**	**5.8 J**	< 10.0 U	**4.1 J**	**2.6 J**	**116**	**8.8 J**	**14.7**	**6.4 J**	< 10.0 U	**5.1 J**	**6.9 J**	< 10.0 U	**19.6**
Potassium	SW6010B	ug/L	NE	NE	**26,100**	**13,400**	**11,000**	**6,110**	**30,500**	**7,760**	**15,600**	**29,500**	**14,200**	**25,900**	**17,000**	**8,070**	**6,970**	**6,570 J**	**7,100**	**4,250**
Silicon	SW6010B	ug/L	NE	NE	**17,500**	**12,300**	**12,200**	**12,000**	**13,900**	**19,500**	**17,300**	**27,700**	**15,300**	**20,900**	**11,400**	**13,200**	**7,770**	**10,600 J**	**13,400**	**11,900**
Sodium	SW6010B	ug/L	NE	20,000	**179,000**	**114,000**	**131,000**	**74,800**	**56,800**	**186,000**	**116,000**	**409,000**	**184,000**	**231,000**	**107,000**	**27,100**	**100,000**	**119,000 J**	**72,600**	**128,000**
Strontium	SW6010B	ug/L	NE	1,200	**817**	**631**	**881**	**369**	**447**	**596**	**516**	**2,170**	**863**	**1,140**	**1,030**	**403**	**400**	**944 J**	**743**	**626**
Tin	SW6010B	ug/L	NE	1,200	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**1.9 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**5.0 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**10.9 J**	**18.8 J**	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**5.9 J**
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U

Notes and definitions are presented on Page 7

Table 3: Q4 2020 Validated Data for Dissolved Metals
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				Sample Location	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS	PZ-102-SS	PZ-103-SS	PZ-103-SS	PZ-104-KS	PZ-104-SD
				Sample Depth (ft BGS)	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63	79.7 - 89.5	134.7 - 144.5	134.7 - 144.5	397.37 - 407.17	235.2 - 245
				Sample Type	N	N	N	FD	N	N	N	N	N	N	N	FD	N	N
				Sample Date	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020	11-06-2020	12-03-2020	12-03-2020	12-03-2020	11-04-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Metals, Dissolved																		
Antimony	SW6020	ug/L	6	0.78	**0.36 J**	**0.18 J**	**0.12 J**	**0.14 J**	< 1.0 U	**0.31 J**	**1.3**	**0.10 J**	**0.11 J**	< 1.0 U	**0.15 J**	**0.14 J**	< 1.0 U	**0.093 J**
Arsenic	SW6020	ug/L	10	0.052	**283**	**1.5**	**3.5**	**3.4**	< 1.0 U	**0.98 J**	**0.20 J**	**10.1**	**0.53 J**	< 1.0 U	**2.6**	**2.4**	**0.45 J**	**14.1**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	< 0.20 U	**0.057 J**	**0.066 J**	< 0.20 U	< 0.20 U	< 0.20 U	**0.035 J**	< 0.20 U	< 0.20 U	**0.076 J**	**0.070 J**	< 0.20 U	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	**0.19 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.023 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Chromium	SW6020	ug/L	100	NE	**18.8**	**1.3 J**	**11.0**	**10.7**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**1.8 J**	**1.7 J**	< 2.0 U	**4.5**
Copper	SW6020	ug/L	1,300	80	**1.2 J+**	< 1.0 U	**1.5 J+**	**1.5 J+**	< 1.0 U	< 1.0 U	**3.2**	< 1.0 U	**1.1 J+**	< 1.0 U	< 1.0 U	**1.1 J+**	< 1.0 U	< 1.0 U
Lead	SW6020	ug/L	15	15	**2.9**	**0.12 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.038 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Selenium	SW6020	ug/L	50	10	**0.79 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	< 1.0 U	**0.062 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.14 J**	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.094 J**	**1.2**	**4.1**	**0.22 J**	**1.8**	**0.23 J**	**0.40 J**	**0.38 J**	**0.30 J**	**0.14 J**
Vanadium	SW6020	ug/L	NE	8.6	**16.7**	**0.57 J**	**3.8**	**3.7**	< 1.0 U	< 1.0 U	**0.46 J**	**2.2**	< 1.0 U	< 1.0 U	**4.8**	**4.5**	< 1.0 U	**2.9**
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	**66.1 J**	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
Barium	SW6010B	ug/L	2,000	380	**3,230**	**433**	**8,330**	**8,190**	< 10.0 U	**331**	**68.7**	**463**	**70.4**	**176**	**863**	**851**	**118**	**484**
Boron	SW6010B	ug/L	NE	400	**2,040**	**1,860**	**1,140**	**1,130**	**620**	< 100 U	**128**	**658**	**146**	**123**	**434**	**433**	**139**	**397**
Calcium	SW6010B	ug/L	NE	NE	**50,800**	**118,000**	**216,000**	**221,000**	**20,100**	**75,000**	**90,500**	**132,000**	**118,000**	**108,000**	**288,000**	**287,000**	**81,900**	**96,200**
Cobalt	SW6010B	ug/L	NE	0.6	**22.5**	**2.0 J**	< 5.0 U	< 5.0 U	< 5.0 U	**0.61 J**	< 5.0 U	**0.70 J**	< 5.0 U	< 5.0 U	**0.69 J**	**1.0 J**	< 5.0 U	**0.69 J**
Iron	SW6010B	ug/L	NE	1,400	**44,700**	**18,600**	**12,200**	**12,200**	**132 J+**	**99.3 J+**	< 50.0 U	**1,140**	**278**	**1,220**	**16,400**	**16,200**	**1,260**	**3,970**
Lithium	SW6010B	ug/L	NE	4	**150**	**21.8**	**52.6**	**51.0**	**134**	**9.7 J**	**39.2**	**33.2**	**45.4**	**50.4**	**60.5**	**59.7**	**28.5**	**17.6 J**
Magnesium	SW6010B	ug/L	NE	NE	**54,400**	**58,000**	**94,800**	**95,800**	**12,300**	**34,400**	**50,900**	**83,900**	**40,800**	**39,000**	**119,000**	**118,000**	**40,800**	**49,600**
Manganese	SW6010B	ug/L	NE	43	**217**	**188**	**339**	**340**	**15.7**	**96.5**	< 5.0 U	**63.1**	**5.4**	**114**	**769**	**759**	**15.8**	**108**
Molybdenum	SW6010B	ug/L	NE	10	**5.9 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**2.8 J**	**1.0 J**	< 10.0 U	**1.5 J**	< 10.0 U	**0.50 J**	**0.78 J**	**1.1 J**	< 10.0 U
Nickel	SW6010B	ug/L	NE	39	**446**	**14.3**	**10.5**	**11.2**	< 10.0 U	**4.5 J**	**8.9 J**	**10.8**	**2.6 J**	< 10.0 U	**37.1**	**36.4**	< 10.0 U	**22.0**
Potassium	SW6010B	ug/L	NE	NE	**229,000**	**67,600**	**32,400**	**32,000**	**4,950**	**2,290**	**2,470**	**13,100**	**3,200**	**2,650**	**6,980**	**6,900**	**1,980**	**11,900**
Silicon	SW6010B	ug/L	NE	NE	**4,180**	**11,300**	**9,920**	**9,700**	**4,130**	**5,910**	**5,830**	**13,800**	**7,610**	**7,230**	**21,800**	**21,900**	**4,300**	**11,200**
Sodium	SW6010B	ug/L	NE	20,000	**230,000**	**134,000**	**262,000**	**273,000**	**227,000**	**6,760**	**10,100**	**98,100**	**14,600**	**14,000**	**95,300**	**93,700**	**36,300**	**69,800**
Strontium	SW6010B	ug/L	NE	1,200	**1,250**	**519**	**2,460**	**2,410**	**2,980**	**398**	**1,500**	**2,100**	**1,450**	**784**	**8,000**	**7,910**	**2,970**	**634**
Tin	SW6010B	ug/L	NE	1,200	**14.2**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	**181**	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**169**	**79.4**	< 20.0 U	**53.3**	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U

Notes and definitions are presented on Page 7

Table 3: Q4 2020 Validated Data for Dissolved Metals
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS	PZ-107-SS	PZ-109-SS	PZ-109-SS	PZ-111-KS	PZ-111-SD	PZ-111-SS	PZ-113-AD
				Sample Depth (ft BGS)	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5	357.15 - 366.96	199.4 - 209.2	105.5 - 115.5	98.6 - 108.4
				Sample Type	N	N	N	N	FD	N	N	N	FD	N	N	N	N
				Sample Date	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020	12-03-2020	11-10-2020	11-10-2020	11-09-2020	11-09-2020	11-09-2020	11-05-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Metals, Dissolved																	
Antimony	SW6020	ug/L	6	0.78	**0.18 J**	**0.16 J**	< 1.0 U	**0.083 J**	< 1.0 U	< 1.0 U	**0.23 J**	**0.27 J**	**0.25 J**	< 1.0 U	< 1.0 U	**0.14 J**	**0.099 J**
Arsenic	SW6020	ug/L	10	0.052	**0.91 J**	**0.64 J**	**1.3**	**0.83 J**	**0.83 J**	**1.1**	**4.0**	**0.76 J**	**0.76 J**	**2.3**	**2.9**	**1.8**	**2.6**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.024 J**	**0.026 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	**0.029 J**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	**0.30**	**0.30**	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Chromium	SW6020	ug/L	100	NE	< 2.0 U	**0.40 J**	< 2.0 U	< 2.0 U	< 2.0 U	**0.71 J**	**7.3 J**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Copper	SW6020	ug/L	1,300	80	**4.6**	**2.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.3**	**1.1 J+**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Lead	SW6020	ug/L	15	15	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Selenium	SW6020	ug/L	50	10	**0.65 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	< 1.0 U	**0.20 J**	**0.44 J**	**0.13 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.10 J**	< 1.0 U	< 1.0 U	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	**1.8**	**2.0**	**1.4**	**0.067 J**	**0.055 J**	**0.60 J**	**0.42 J**	**0.52 J**	**0.50 J**	**6.6**	**0.63 J**	**0.58 J**	**0.12 J**
Vanadium	SW6020	ug/L	NE	8.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.58 J**	**8.4**	**0.21 J**	**0.26 J**	< 1.0 U	< 1.0 U	**0.50 J**	**0.29 J**
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
Barium	SW6010B	ug/L	2,000	380	**99.1**	**229**	**41.0**	**147**	**143**	**880**	**920**	**58.7**	**59.7**	< 10.0 U	**110**	**726**	**1,530**
Boron	SW6010B	ug/L	NE	400	**140**	**81.8 J**	**180**	**101**	**96.0 J**	**185**	**1,190**	**181**	**181**	**1,090**	< 100 U	**627**	**869**
Calcium	SW6010B	ug/L	NE	NE	**80,100**	**106,000**	**55,400**	**106,000**	**104,000**	**116,000**	**234,000**	**84,900**	**87,400**	**7,940**	**85,900**	**205,000**	**194,000**
Cobalt	SW6010B	ug/L	NE	0.6	**0.40 J**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**2.7 J**	< 5.0 U	**0.81 J**	< 5.0 U	< 5.0 U	**2.2 J**	**1.5 J**
Iron	SW6010B	ug/L	NE	1,400	**132**	**642**	**772**	**777**	**753**	**2,720**	**5,050**	**70.8**	**90.2**	**535**	**1,790**	**2,190**	**27,600**
Lithium	SW6010B	ug/L	NE	4	**36.3**	**23.0**	**45.7**	**21.8**	**21.7**	**34.6**	**46.5**	**22.6**	**22.7**	**228**	**15.3 J**	**41.8**	**30.1**
Magnesium	SW6010B	ug/L	NE	NE	**48,700**	**54,500**	**34,500**	**51,800**	**51,200**	**58,100**	**127,000**	**48,000**	**49,300**	**5,070 J-**	**47,800 J-**	**104,000 J-**	**64,000**
Manganese	SW6010B	ug/L	NE	43	**10.2**	**138**	< 5.0 U	**33.8**	**33.2**	**20.9**	**93.6**	< 5.0 U	< 5.0 U	**6.1 J+**	**10.4**	**33.1**	**406**
Molybdenum	SW6010B	ug/L	NE	10	**11.4 J+**	**4.1 J**	< 10.0 U	**3.9 J**	**1.4 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	**1.7 J**
Nickel	SW6010B	ug/L	NE	39	**5.4 J**	**10.2**	**3.8 J**	**2.8 J**	**2.5 J**	**7.8 J**	**38.1**	**2.2 J**	**3.0 J**	**3.4 J**	< 10.0 U	**21.9**	**7.2 J**
Potassium	SW6010B	ug/L	NE	NE	**2,460**	**2,170**	**1,870**	**3,320**	**3,250**	**4,840**	**16,000**	**3,580**	**3,570**	**7,460**	**2,140**	**7,800**	**15,000**
Silicon	SW6010B	ug/L	NE	NE	**9,930**	**12,000**	**3,890**	**7,940**	**8,080**	**7,360**	**18,400**	**4,810**	**4,890**	**3,950**	**6,540**	**11,200**	**16,100**
Sodium	SW6010B	ug/L	NE	20,000	**15,300**	**47,400**	**57,900**	**24,100**	**23,800**	**80,200**	**193,000**	**10,800**	**10,500**	**392,000**	**20,600**	**242,000**	**181,000**
Strontium	SW6010B	ug/L	NE	1,200	**1,020**	**798**	**5,120**	**1,500**	**1,460**	**1,030**	**1,490**	**3,010**	**3,010**	**1,580**	**1,140**	**2,910**	**620**
Tin	SW6010B	ug/L	NE	1,200	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	**161**	**69.2**	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**155**	**157**	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U

Notes and definitions are presented on Page 7

Table 3: Q4 2020 Validated Data for Dissolved Metals
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				Sample Location	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS	PZ-115-SS	PZ-116-SS	PZ-200-SS	PZ-201A-SS	PZ-202-SS	PZ-203-SS	PZ-204A-SS	PZ-204-SS	PZ-205-AS
				Sample Depth (ft BGS)	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48	74.68 - 84.48	151.4 - 161	9.62 - 97.64	80 - 89.8	40.2 - 89.1	99.6 - 109.4	79.5 - 89.1	10.95 - 89.35	38.55 - 48.35
				Sample Type	FD	N	N	N	N	FD	N	N	N	N	N	N	N	N
				Sample Date	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020	11-24-2020	12-04-2020	12-02-2020	12-04-2020	12-02-2020	11-16-2020	12-04-2020	12-04-2020	11-11-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Metals, Dissolved																		
Antimony	SW6020	ug/L	6	0.78	0.097 J	0.087 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.14 J	< 1.0 U	0.17 J	0.11 J	< 1.0 U	0.19 J	0.35 J	0.45 J
Arsenic	SW6020	ug/L	10	0.052	2.7	16.1	0.78 J	90.0	5.0	4.8	0.72 J	4.9	1.2	41.2	2.2	14.6	0.49 J	35.7
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.044 J	< 0.20 U	0.027 J	< 0.20 U	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.038 J	< 0.20 U
Chromium	SW6020	ug/L	100	NE	< 2.0 U	< 2.0 U	< 2.0 U	0.34 J	0.60 J	0.83 J	0.17 J	< 2.0 U	< 2.0 U	3.9	1.4 J	2.4	0.17 J	8.0
Copper	SW6020	ug/L	1,300	80	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	6.4	1.3 J+	< 1.0 U	< 1.0 U	2.3	2.6
Lead	SW6020	ug/L	15	15	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Selenium	SW6020	ug/L	50	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.28 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.57 J	< 1.0 U	0.48 J	< 1.0 U	0.76 J
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.052 J	< 1.0 U	< 1.0 U	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	0.12 J	2.5	1.2	0.010 J	4.4	4.3	2.7	0.85 J	3.9	0.15 J	0.73 J	4.1	3.3	0.034 J
Vanadium	SW6020	ug/L	NE	8.6	0.29 J	0.54 J	< 1.0 U	0.42 J	0.67 J	0.68 J	0.47 J	0.45 J	< 1.0 U	14.6	0.36 J	3.6	0.56 J	6.1
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U
Barium	SW6010B	ug/L	2,000	380	1,550	911	182	1,060	476	466	107	584	113	2,720	110	451	171	6,310
Boron	SW6010B	ug/L	NE	400	874	291	37.9 J	245	434	422	431	< 100 U	48.1 J	414	137	439	100	2,690
Calcium	SW6010B	ug/L	NE	NE	196,000	190,000	57,000	216,000	214,000	207,000	52,400	272,000	87,800	489,000	99,700	359,000	71,600	891,000
Cobalt	SW6010B	ug/L	NE	0.6	1.8 J	9.8	< 5.0 U	< 5.0 U	26.2	25.6	0.80 J	14.2	< 5.0 U	4.2 J	< 5.0 U	3.1 J	< 5.0 U	4.2 J
Iron	SW6010B	ug/L	NE	1,400	28,100	7,320	159	65,400	2,760	2,740	76.9 J+	2,940	< 50.0 U	51,400	1,780	14,100	< 50.0 U	87,100
Lithium	SW6010B	ug/L	NE	4	28.8	22.0	11.3 J	13.4 J	21.4	22.3	35.8	26.1	11.4 J	42.2	36.5	36.6	33.1	111
Magnesium	SW6010B	ug/L	NE	NE	64,900	49,900	29,600	51,700	96,400	95,900	37,000	134,000	46,600	220,000	46,200	123,000	49,800	250,000
Manganese	SW6010B	ug/L	NE	43	413	5,160	34.5	4,050	84.8	85.8	236	1,950	8.5	1,610	16.0	3,760	6.6	1,190
Molybdenum	SW6010B	ug/L	NE	10	< 10.0 U	2.2 J	16.2	< 10.0 U	< 10.0 U	< 10.0 U	3.5 J	1.7 J	2.1 J	< 10.0 U	1.8 J	2.2 J	2.4 J	< 10.0 U
Nickel	SW6010B	ug/L	NE	39	7.1 J	16.4	< 10.0 U	2.5 J	64.2	63.5	2.0 J	38.9	1.4 J	23.4	7.0 J	68.0	2.2 J	24.7
Potassium	SW6010B	ug/L	NE	NE	15,300	10,600	1,580	7,280	5,090	5,070	4,170	2,270	2,290	7,000	2,410	7,910	2,750	29,000
Silicon	SW6010B	ug/L	NE	NE	16,100	14,400	7,000	22,700	19,200	19,200	8,330	21,400	13,200	27,700	7,090	20,900	10,900	7,560
Sodium	SW6010B	ug/L	NE	20,000	180,000	56,100	20,400	217,000	199,000	196,000	23,600	47,100	12,700	372,000	10,200	296,000	24,600	686,000
Strontium	SW6010B	ug/L	NE	1,200	628	651	576	913	1,770	1,730	4,820	586	466	1,140	819	727	2,290	5,100
Tin	SW6010B	ug/L	NE	1,200	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	2.5 J	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	1.3 J	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	17.1 J	18.2 J	< 20.0 U	< 20.0 U	92.0	< 20.0 U	< 20.0 U	< 20.0 U	61.2	< 20.0 U
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U

Notes and definitions are presented on Page 7

Table 3: Q4 2020 Validated Data for Dissolved Metals
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				Sample Location	PZ-205-SS	PZ-206-SS	PZ-207-AS	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SS	PZ-302-AI	PZ-302-AS	PZ-303-AS	PZ-304-AI	PZ-304-AS	S-5	S-5	S-10	S-82
				Sample Depth (ft BGS)	88.57 - 98.37	115 - 124.8	34.9 - 39.7	140 - 150	138 - 148	237 - 247	137 - 147	32.6 - 42.4	12.2 - 22	16 - 25.8	39 - 48.8	17.1 - 26.9	30 - 40	30 - 40	32 - 52	15.5 - 25.5
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N
				Sample Date	11-11-2020	11-10-2020	12-01-2020	11-04-2020	11-03-2020	11-03-2020	12-04-2020	12-01-2020	11-30-2020	12-04-2020	12-02-2020	12-02-2020	11-20-2020	11-20-2020	11-13-2020	11-23-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1																
Metals, Dissolved																				
Antimony	SW6020	ug/L	6	0.78	< 1.0 U	< 1.0 U	0.18 J	0.081 J	0.11 J	0.55 J	< 1.0 U	< 1.0 U	0.12 J	0.13 J	< 1.0 U	0.24 J	0.57 J	0.54 J	0.17 J	< 1.0 U
Arsenic	SW6020	ug/L	10	0.052	0.24 J	1.5	12.0	1.3	0.71 J	0.62 J	1.6	2.7	92.5	72.5	0.74 J	252	11.6	11.0	51.1	193
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.60	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.14 J	0.14 J	< 0.20 U	< 0.20 U
Chromium	SW6020	ug/L	100	NE	< 2.0 U	< 2.0 U	1.7 J	0.26 J	0.76 J	0.27 J	< 2.0 U	0.18 J	0.67 J	0.35 J	0.60 J	2.4	4.5	4.5	1.2 J	0.71 J
Copper	SW6020	ug/L	1,300	80	1.1 J+	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.5	< 1.0 U
Lead	SW6020	ug/L	15	15	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.10 J	0.11 J	0.043 J	< 1.0 U
Selenium	SW6020	ug/L	50	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.56 J	< 1.0 U	0.42 J	0.69 J	0.50 J	< 1.0 U	0.43 J
Silver	SW6020	ug/L	NE	9.4	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.045 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.19 J	0.11 J	< 1.0 U	< 1.0 U	0.11 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.23 J	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	0.84 J	0.089 J	0.013 J	1.0	0.33 J	3.3	1.1	10.8	0.16 J	0.022 J	0.29 J	0.012 J	< 1.0 U	< 1.0 U	0.17 J	2.2
Vanadium	SW6020	ug/L	NE	8.6	< 1.0 U	0.24 J	1.5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.97 J	1.3	0.57 J	4.3	1.9	1.9	3.5	0.59 J
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	< 200 U	812	< 200 U
Barium	SW6010B	ug/L	2,000	380	152	77.7	659	95.6	91.9	128	55.2	501	405	672	1,390	2,700	564	620	255	1,120
Boron	SW6010B	ug/L	NE	400	< 100 U	166	1,210	271	124	96.4 J	427	402	544	254	564	2,030	2,650	2,920	1,260	3,550
Calcium	SW6010B	ug/L	NE	NE	96,900	115,000	147,000	72,300	88,900	90,100	64,200	222,000	161,000	244,000	257,000	67,300	58,600	64,200	190,000	190,000
Cobalt	SW6010B	ug/L	NE	0.6	< 5.0 U	0.59 J	3.4 J	0.68 J	< 5.0 U	< 5.0 U	< 5.0 U	12.8	1.0 J	2.1 J	3.0 J	4.4 J	5.9	6.8	1.7 J	4.4 J
Iron	SW6010B	ug/L	NE	1,400	54.8	1,930	22,400	500	1,000	< 50.0 U	308	4,170	37,100	72,700	18,700	20,200	15,300	16,800	149,000	30,200
Lithium	SW6010B	ug/L	NE	4	20.4	36.6	23.5	39.2	21.8	24.6	47.8	24.2	11.8 J	21.3	35.8	22.7	25.0	24.7	61.2	46.4
Magnesium	SW6010B	ug/L	NE	NE	55,200	76,300	70,500	49,000	44,900	43,800	41,800	57,500	56,400	59,400	73,700	63,400	62,400	68,300	167,000	81,800
Manganese	SW6010B	ug/L	NE	43	< 5.0 U	44.4	75.9	39.2	87.7	< 5.0 U	24.1	377	2,140	1,450	1,140	66.4	134	146	7,640	1,380
Molybdenum	SW6010B	ug/L	NE	10	< 10.0 U	< 10.0 U	< 10.0 U	4.9 J	1.8 J	27.0	8.2 J	12.0	< 10.0 U	< 10.0 U	0.84 J	53.6	< 10.0 U	0.79 J	< 10.0 U	12.6
Nickel	SW6010B	ug/L	NE	39	2.2 J	3.8 J	11.0	3.5 J	3.6 J	3.2 J	1.7 J	27.1	3.4 J	6.9 J	14.4	29.7	34.3	38.2	14.8	22.2
Potassium	SW6010B	ug/L	NE	NE	1,920	4,110	51,500	3,530	5,670	3,710	3,750	7,760	6,920	4,320	10,400	125,000	201,000	220,000	44,800	20,200
Silicon	SW6010B	ug/L	NE	NE	8,890	6,490	18,600	5,830	8,970	6,570	4,820	14,000	18,400	24,700	18,500	23,700	15,800	17,500	21,100	20,000
Sodium	SW6010B	ug/L	NE	20,000	15,700	22,600	215,000	11,000	29,100	49,200	20,400	59,900	44,300	47,300	137,000	317,000	435,000	477,000	216,000	293,000
Strontium	SW6010B	ug/L	NE	1,200	492	4,600	791	4,740	1,440	1,390	4,360	925	974	667	1,010	1,070	335	368	1,100	1,320
Tin	SW6010B	ug/L	NE	1,200	< 10.0 U	< 10.0 U	< 10.0 U	6.9 J	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	11.1	12.2	< 10.0 U	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	1.2 J	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	37.0	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	38.0	45.2	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U

Notes and definitions are presented on Page 7

Table 3: Q4 2020 Validated Data for Dissolved Metals
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	S-84
				Sample Depth (ft BGS)	20.9 - 30.9
				Sample Type	N
				Sample Date	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**	
Metals, Dissolved					
Antimony	SW6020	ug/L	6	0.78	< 1.0 U
Arsenic	SW6020	ug/L	10	0.052	**417**
Beryllium	SW6020	ug/L	4	2.5	< 0.20 U
Cadmium	SW6020	ug/L	5	0.92	< 0.20 U
Chromium	SW6020	ug/L	100	NE	**0.37 J**
Copper	SW6020	ug/L	1,300	80	< 1.0 U
Lead	SW6020	ug/L	15	15	< 1.0 U
Selenium	SW6020	ug/L	50	10	< 1.0 U
Silver	SW6020	ug/L	NE	9.4	< 0.50 U
Thallium	SW6020	ug/L	2	0.02	< 1.0 U
Thorium	SW6020	ug/L	NE	NE	< 1.0 U
Uranium	SW6020	ug/L	30	0.4	**0.013 J**
Vanadium	SW6020	ug/L	NE	8.6	**0.40 J**
Aluminum	SW6010B	ug/L	NE	2,000	< 200 U
Barium	SW6010B	ug/L	2,000	380	**868**
Boron	SW6010B	ug/L	NE	400	**215**
Calcium	SW6010B	ug/L	NE	NE	**133,000**
Cobalt	SW6010B	ug/L	NE	0.6	**9.0**
Iron	SW6010B	ug/L	NE	1,400	**51,000**
Lithium	SW6010B	ug/L	NE	4	**19.8 J**
Magnesium	SW6010B	ug/L	NE	NE	**50,400**
Manganese	SW6010B	ug/L	NE	43	**380**
Molybdenum	SW6010B	ug/L	NE	10	**10.6 J+**
Nickel	SW6010B	ug/L	NE	39	**15.4**
Potassium	SW6010B	ug/L	NE	NE	**5,240**
Silicon	SW6010B	ug/L	NE	NE	**22,400**
Sodium	SW6010B	ug/L	NE	20,000	**33,100**
Strontium	SW6010B	ug/L	NE	1,200	**641**
Tin	SW6010B	ug/L	NE	1,200	< 10.0 U
Titanium	SW6010B	ug/L	NE	NE	< 10.0 U
Zinc	SW6010B	ug/L	NE	600	< 20.0 U
Mercury	SW7470A	ug/L	2	0.063	< 0.20 U

Notes and definitions are presented on Page 7

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

J+ = The result is an estimated concentration, but may be biased high.

J- = The result is an estimated concentration, but may be biased low.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

Table 4a: Q4 2020 Validated Data for Semivolatile Organic Compounds
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65	I-66
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36	26.9 - 36.9
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020	11-05-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Semivolatile Organic Compounds, Total (#–C)																		
1,2,4,5-Tetrachlorobenzene	SW8270C	ug/L	NE	0.17	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 10.0 UJ
1,3,5-Trinitrobenzene	SW8270C	ug/L	NE	59	< 18.2 UJ	< 18.2 UJ	< 18.2 UJ	< 19.0 UJ	< 19.0 U	< 18.2 UJ	< 18.2 UJ	< 20.0 UJ	< 19.0 U	< 19.0 U	< 18.2 UJ	< 20.0 U	< 18.2 U	< 20.0 UJ
1,3-Dinitrobenzene	SW8270C	ug/L	NE	0.2	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
1,4-Naphthoquinone	SW8270C	ug/L	NE	NE	< 18.2 U	< 18.2 U	< 18.2 U	< 19.0 U	< 19.0 U	< 18.2 U	< 18.2 U	< 20.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 20.0 U	< 18.2 U	< 20.0 U
2,2-Oxybis(1-chloropropane)	SW8270C	ug/L	NE	71	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2,3,4,6-Tetrachlorophenol	SW8270C	ug/L	NE	24	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2,4,5-Trichlorophenol	SW8270C	ug/L	NE	120	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2,4,6-Trichlorophenol	SW8270C	ug/L	NE	1.2	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2,4-Dichlorophenol	SW8270C	ug/L	NE	4.6	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2,4-Dimethylphenol	SW8270C	ug/L	NE	36	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	**6.7 J**	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2,4-Dinitrophenol	SW8270C	ug/L	NE	3.9	< 45.5 U	< 45.5 U	< 45.5 U	< 47.6 U	< 47.6 U	< 45.5 U	< 45.5 U	< 50.0 U	< 47.6 U	< 47.6 U	< 45.5 U	< 50.0 U	< 45.5 U	< 50.0 U
2,4-Dinitrotoluene	SW8270C	ug/L	NE	0.24	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 UJ	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 UJ	< 9.1 U	< 10.0 U
2,6-Dichlorophenol	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2,6-Dinitrotoluene	SW8270C	ug/L	NE	0.049	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2-Acetylaminofluorene	SW8270C	ug/L	NE	0.016	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2-Chloronaphthalene	SW8270C	ug/L	NE	75	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2-Chlorophenol	SW8270C	ug/L	NE	9.1	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2-Nitroaniline	SW8270C	ug/L	NE	19	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
2-Nitrophenol	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 UJ	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 UJ	< 9.5 UJ	< 9.1 U	< 10.0 UJ	< 9.1 UJ	< 10.0 U
3,3'-Dichlorobenzidine	SW8270C	ug/L	NE	0.13	< 18.2 U	< 18.2 U	< 18.2 U	< 19.0 U	< 19.0 U	< 18.2 U	< 18.2 U	< 20.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 20.0 U	< 18.2 U	< 20.0 U
3-Methylcholanthrene	SW8270C	ug/L	NE	0.0011	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
3-Nitroaniline	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
4-Aminobiphenyl	SW8270C	ug/L	NE	0.003	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
4-Bromophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
4-Chloro-3-methylphenol	SW8270C	ug/L	NE	140	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
4-Chlorophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
4-Dimethylaminoazobenzene	SW8270C	ug/L	NE	0.005	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 U	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 9.5 U	< 9.5 U	< 9.1 UJ	< 10.0 U	< 9.1 U	< 10.0 UJ
4-Nitrophenol	SW8270C	ug/L	NE	NE	< 45.5 U	< 45.5 U	< 45.5 U	< 47.6 U	< 47.6 U	< 45.5 U	< 45.5 U	< 50.0 U	< 47.6 U	< 47.6 U	< 45.5 U	< 50.0 U	< 45.5 U	< 50.0 U
5-Nitro-o-toluidine	SW8270C	ug/L	NE	8.2	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
7,12-Dimethylbenz(a)anthracene	SW8270C	ug/L	NE	0.0001	< 18.2 U	< 18.2 U	< 18.2 U	< 19.0 U	< 19.0 U	< 18.2 U	< 18.2 U	< 20.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 20.0 U	< 18.2 U	< 20.0 U
Acetophenone	SW8270C	ug/L	NE	190	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 10.0 UJ
alpha-Naphthylamine	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
Atrazine	SW8270C	ug/L	3	0.3	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 10.0 UJ
Benzaldehyde	SW8270C	ug/L	NE	19	< 45.5 UJ	< 45.5 UJ	< 45.5 UJ	< 47.6 UJ	< 47.6 UJ	< 45.5 UJ	< 45.5 UJ	< 50.0 UJ	< 47.6 UJ	< 47.6 UJ	< 45.5 UJ	< 50.0 UJ	< 45.5 UJ	< 50.0 UJ
Benzyl alcohol	SW8270C	ug/L	NE	200	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
Benzyl butyl phthalate	SW8270C	ug/L	NE	16	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 UJ	< 9.5 UJ	< 9.1 U	< 10.0 U	< 9.1 UJ	< 10.0 U
beta-Naphthylamine	SW8270C	ug/L	NE	0.039	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
Biphenyl	SW8270C	ug/L	NE	0.083	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 10.0 UJ
Bis(2-chloroethoxy)methane	SW8270C	ug/L	NE	5.9	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U
Bis(2-ethylhexyl)phthalate	SW8270C	ug/L	6	5.6	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 UJ	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 UJ	< 9.5 UJ	< 9.1 U	< 10.0 UJ	< 9.1 UJ	< 10.0 U
Caprolactam	SW8270C	ug/L	NE	990	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	**108 J**	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 10.0 UJ
Carbazole	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 UJ	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 UJ	< 9.1 U	< 10.0 U
Chlorobenzilate	SW8270C	ug/L	NE	0.31	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 UJ	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 UJ	< 9.1 U	< 10.0 U

Notes and definitions are presented on Page 7

Table 4a: Q4 2020 Validated Data for Semivolatile Organic Compounds
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				Sample Location	I-67	I-68	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS	PZ-102-SS	PZ-103-SS
				Sample Depth (ft BGS)	25.4 - 35.4	21.2 - 31.2	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63	79.7 - 89.5	134.7 - 144.5
				Sample Type	N	N	N	N	N	FD	N	N	N	N	N	N	N
				Sample Date	11-10-2020	11-24-2020	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020	11-06-2020	12-03-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Semivolatile Organic Compounds, Total (#–C)																	
1,2,4,5-Tetrachlorobenzene	SW8270C	ug/L	NE	0.17	< 9.5 UJ	< 9.1 UJ	< 47.6 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ
1,3,5-Trinitrobenzene	SW8270C	ug/L	NE	59	< 19.0 U	< 18.2 U	< 95.2 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 18.2 UJ
1,3-Dinitrobenzene	SW8270C	ug/L	NE	0.2	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
1,4-Naphthoquinone	SW8270C	ug/L	NE	NE	< 19.0 U	< 18.2 U	< 95.2 U	< 19.0 U	< 19.0 U	< 19.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U
2,2-Oxybis(1-chloropropane)	SW8270C	ug/L	NE	71	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2,3,4,6-Tetrachlorophenol	SW8270C	ug/L	NE	24	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2,4,5-Trichlorophenol	SW8270C	ug/L	NE	120	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 UJ	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2,4,6-Trichlorophenol	SW8270C	ug/L	NE	1.2	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2,4-Dichlorophenol	SW8270C	ug/L	NE	4.6	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2,4-Dimethylphenol	SW8270C	ug/L	NE	36	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2,4-Dinitrophenol	SW8270C	ug/L	NE	3.9	< 47.6 U	< 45.5 U	< 238 U	< 47.6 U	< 47.6 U	< 47.6 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U
2,4-Dinitrotoluene	SW8270C	ug/L	NE	0.24	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2,6-Dichlorophenol	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2,6-Dinitrotoluene	SW8270C	ug/L	NE	0.049	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2-Acetylaminofluorene	SW8270C	ug/L	NE	0.016	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2-Chloronaphthalene	SW8270C	ug/L	NE	75	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2-Chlorophenol	SW8270C	ug/L	NE	9.1	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2-Nitroaniline	SW8270C	ug/L	NE	19	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
2-Nitrophenol	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 UJ	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
3,3'-Dichlorobenzidine	SW8270C	ug/L	NE	0.13	< 19.0 U	< 18.2 U	< 95.2 U	< 19.0 U	< 19.0 U	< 19.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U
3-Methylcholanthrene	SW8270C	ug/L	NE	0.0011	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
3-Nitroaniline	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
4-Aminobiphenyl	SW8270C	ug/L	NE	0.003	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
4-Bromophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
4-Chloro-3-methylphenol	SW8270C	ug/L	NE	140	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
4-Chlorophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
4-Dimethylaminoazobenzene	SW8270C	ug/L	NE	0.005	< 9.5 U	< 9.1 U	< 47.6 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ
4-Nitrophenol	SW8270C	ug/L	NE	NE	< 47.6 U	< 45.5 U	< 238 U	< 47.6 U	< 47.6 U	< 47.6 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U
5-Nitro-o-toluidine	SW8270C	ug/L	NE	8.2	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
7,12-Dimethylbenz(a)anthracene	SW8270C	ug/L	NE	0.0001	< 19.0 U	< 18.2 U	< 95.2 U	< 19.0 U	< 19.0 U	< 19.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U
Acetophenone	SW8270C	ug/L	NE	190	< 9.5 UJ	< 9.1 UJ	< 47.6 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ
alpha-Naphthylamine	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
Atrazine	SW8270C	ug/L	3	0.3	< 9.5 UJ	< 9.1 UJ	< 47.6 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ
Benzaldehyde	SW8270C	ug/L	NE	19	< 47.6 UJ	< 45.5 UJ	< 238 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 50.0 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 45.5 UJ
Benzyl alcohol	SW8270C	ug/L	NE	200	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
Benzyl butyl phthalate	SW8270C	ug/L	NE	16	< 9.5 UJ	< 9.1 UJ	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
beta-Naphthylamine	SW8270C	ug/L	NE	0.039	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
Biphenyl	SW8270C	ug/L	NE	0.083	< 9.5 UJ	< 9.1 UJ	< 47.6 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ
Bis(2-chloroethoxy)methane	SW8270C	ug/L	NE	5.9	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
Bis(2-ethylhexyl)phthalate	SW8270C	ug/L	6	5.6	< 9.5 U	< 9.1 UJ	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
Caprolactam	SW8270C	ug/L	NE	990	< 9.5 UJ	< 9.1 UJ	**298 J**	< 9.5 UJ	**41.4 J**	**45.0 J**	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ
Carbazole	SW8270C	ug/L	NE	NE	< 9.5 UJ	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U
Chlorobenzilate	SW8270C	ug/L	NE	0.31	< 9.5 U	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U

Notes and definitions are presented on Page 7

Table 4a: Q4 2020 Validated Data for Semivolatile Organic Compounds
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				Sample Location	PZ-103-SS	PZ-104-KS	PZ-104-SD	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS	PZ-107-SS	PZ-109-SS	PZ-109-SS
				Sample Depth (ft BGS)	134.7 - 144.5	397.37 - 407.17	235.2 - 245	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5
				Sample Type	FD	N	N	N	N	N	N	FD	N	N	N	FD
				Sample Date	12-03-2020	12-03-2020	11-04-2020	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020	12-03-2020	11-10-2020	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**												
Semivolatile Organic Compounds, Total (#–C)																
1,2,4,5-Tetrachlorobenzene	SW8270C	ug/L	NE	0.17	< 9.5 UJ	< 10.0 UJ	< 9.1 UJ	< 9.5 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
1,3,5-Trinitrobenzene	SW8270C	ug/L	NE	59	< 19.0 UJ	< 20.0 UJ	< 18.2 UJ	< 19.0 UJ	< 20.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 U	< 19.0 UJ	< 19.0 U	< 19.0 U
1,3-Dinitrobenzene	SW8270C	ug/L	NE	0.2	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
1,4-Naphthoquinone	SW8270C	ug/L	NE	NE	< 19.0 U	< 20.0 U	< 18.2 U	< 19.0 U	< 20.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U
2,2-Oxybis(1-chloropropane)	SW8270C	ug/L	NE	71	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2,3,4,6-Tetrachlorophenol	SW8270C	ug/L	NE	24	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2,4,5-Trichlorophenol	SW8270C	ug/L	NE	120	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2,4,6-Trichlorophenol	SW8270C	ug/L	NE	1.2	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2,4-Dichlorophenol	SW8270C	ug/L	NE	4.6	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2,4-Dimethylphenol	SW8270C	ug/L	NE	36	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2,4-Dinitrophenol	SW8270C	ug/L	NE	3.9	< 47.6 U	< 50.0 U	< 45.5 U	< 47.6 U	< 50.0 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U
2,4-Dinitrotoluene	SW8270C	ug/L	NE	0.24	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2,6-Dichlorophenol	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2,6-Dinitrotoluene	SW8270C	ug/L	NE	0.049	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2-Acetylaminofluorene	SW8270C	ug/L	NE	0.016	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2-Chloronaphthalene	SW8270C	ug/L	NE	75	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2-Chlorophenol	SW8270C	ug/L	NE	9.1	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2-Nitroaniline	SW8270C	ug/L	NE	19	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
2-Nitrophenol	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
3,3'-Dichlorobenzidine	SW8270C	ug/L	NE	0.13	< 19.0 U	< 20.0 U	< 18.2 U	< 19.0 U	< 20.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U
3-Methylcholanthrene	SW8270C	ug/L	NE	0.0011	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
3-Nitroaniline	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
4-Aminobiphenyl	SW8270C	ug/L	NE	0.003	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
4-Bromophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
4-Chloro-3-methylphenol	SW8270C	ug/L	NE	140	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
4-Chlorophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
4-Dimethylaminoazobenzene	SW8270C	ug/L	NE	0.005	< 9.5 UJ	< 10.0 UJ	< 9.1 UJ	< 9.5 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 U	< 9.5 UJ	< 9.5 U	< 9.5 U
4-Nitrophenol	SW8270C	ug/L	NE	NE	< 47.6 U	< 50.0 U	< 45.5 U	< 47.6 U	< 50.0 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U
5-Nitro-o-toluidine	SW8270C	ug/L	NE	8.2	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
7,12-Dimethylbenz(a)anthracene	SW8270C	ug/L	NE	0.0001	< 19.0 U	< 20.0 U	< 18.2 U	< 19.0 U	< 20.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U
Acetophenone	SW8270C	ug/L	NE	190	< 9.5 UJ	< 10.0 UJ	< 9.1 UJ	< 9.5 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
alpha-Naphthylamine	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Atrazine	SW8270C	ug/L	3	0.3	< 9.5 UJ	< 10.0 UJ	< 9.1 UJ	< 9.5 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
Benzaldehyde	SW8270C	ug/L	NE	19	< 47.6 UJ	< 50.0 UJ	< 45.5 UJ	< 47.6 UJ	< 50.0 UJ	< 50.0 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ
Benzyl alcohol	SW8270C	ug/L	NE	200	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Benzyl butyl phthalate	SW8270C	ug/L	NE	16	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 UJ	< 9.5 U	< 9.5 UJ	< 9.5 UJ
beta-Naphthylamine	SW8270C	ug/L	NE	0.039	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Biphenyl	SW8270C	ug/L	NE	0.083	< 9.5 UJ	< 10.0 UJ	< 9.1 UJ	< 9.5 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
Bis(2-chloroethoxy)methane	SW8270C	ug/L	NE	5.9	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Bis(2-ethylhexyl)phthalate	SW8270C	ug/L	6	5.6	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Caprolactam	SW8270C	ug/L	NE	990	< 9.5 UJ	< 10.0 UJ	< 9.1 UJ	< 9.5 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	**5.0 J**	< 9.5 UJ	< 9.5 UJ
Carbazole	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 UJ	< 9.5 U	< 9.5 UJ	< 9.5 UJ
Chlorobenzilate	SW8270C	ug/L	NE	0.31	< 9.5 U	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U

Notes and definitions are presented on Page 7

Table 4a: Q4 2020 Validated Data for Semivolatile Organic Compounds
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				Sample Location	PZ-111-KS	PZ-111-SD	PZ-111-SS	PZ-113-AD	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS	PZ-115-SS	PZ-116-SS	PZ-200-SS	PZ-201A-SS
				Sample Depth (ft BGS)	357.15 - 366.96	199.4 - 209.2	105.5 - 115.5	98.6 - 108.4	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48	74.68 - 84.48	151.4 - 161	9.62 - 97.64	80 - 89.8
				Sample Type	N	N	N	N	FD	N	N	N	N	FD	N	N	N
				Sample Date	11-09-2020	11-09-2020	11-09-2020	11-05-2020	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020	11-24-2020	12-04-2020	12-02-2020	12-04-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1													
Semivolatile Organic Compounds, Total (#–C)																	
1,2,4,5-Tetrachlorobenzene	SW8270C	ug/L	NE	0.17	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 U	< 10.0 UJ	< 9.5 U
1,3,5-Trinitrobenzene	SW8270C	ug/L	NE	59	< 19.0 UJ	< 19.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 18.2 U	< 18.2 U	< 18.2 U	< 20.0 U	< 20.0 UJ	< 19.0 U
1,3-Dinitrobenzene	SW8270C	ug/L	NE	0.2	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
1,4-Naphthoquinone	SW8270C	ug/L	NE	NE	< 19.0 U	< 19.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 18.2 U	< 18.2 U	< 20.0 U	< 20.0 U	< 19.0 U
2,2-Oxybis(1-chloropropane)	SW8270C	ug/L	NE	71	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2,3,4,6-Tetrachlorophenol	SW8270C	ug/L	NE	24	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2,4,5-Trichlorophenol	SW8270C	ug/L	NE	120	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 UJ	< 9.5 U
2,4,6-Trichlorophenol	SW8270C	ug/L	NE	1.2	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2,4-Dichlorophenol	SW8270C	ug/L	NE	4.6	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2,4-Dimethylphenol	SW8270C	ug/L	NE	36	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2,4-Dinitrophenol	SW8270C	ug/L	NE	3.9	< 47.6 U	< 47.6 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U	< 45.5 U	< 45.5 U	< 50.0 U	< 50.0 U	< 47.6 U
2,4-Dinitrotoluene	SW8270C	ug/L	NE	0.24	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2,6-Dichlorophenol	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2,6-Dinitrotoluene	SW8270C	ug/L	NE	0.049	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2-Acetylaminofluorene	SW8270C	ug/L	NE	0.016	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2-Chloronaphthalene	SW8270C	ug/L	NE	75	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2-Chlorophenol	SW8270C	ug/L	NE	9.1	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2-Nitroaniline	SW8270C	ug/L	NE	19	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
2-Nitrophenol	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 UJ	< 9.1 UJ	< 10.0 U	< 10.0 U	< 9.5 U
3,3'-Dichlorobenzidine	SW8270C	ug/L	NE	0.13	< 19.0 U	< 19.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 18.2 U	< 18.2 U	< 20.0 U	< 20.0 U	< 19.0 U
3-Methylcholanthrene	SW8270C	ug/L	NE	0.0011	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
3-Nitroaniline	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
4-Aminobiphenyl	SW8270C	ug/L	NE	0.003	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
4-Bromophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
4-Chloro-3-methylphenol	SW8270C	ug/L	NE	140	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
4-Chlorophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
4-Dimethylaminoazobenzene	SW8270C	ug/L	NE	0.005	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 UJ	< 9.5 U
4-Nitrophenol	SW8270C	ug/L	NE	NE	< 47.6 U	< 47.6 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U	< 45.5 U	< 45.5 U	< 50.0 U	< 50.0 U	< 47.6 U
5-Nitro-o-toluidine	SW8270C	ug/L	NE	8.2	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
7,12-Dimethylbenz(a)anthracene	SW8270C	ug/L	NE	0.0001	< 19.0 U	< 19.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 18.2 U	< 18.2 U	< 20.0 U	< 20.0 U	< 19.0 U
Acetophenone	SW8270C	ug/L	NE	190	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 U	< 10.0 UJ	< 9.5 U
alpha-Naphthylamine	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
Atrazine	SW8270C	ug/L	3	0.3	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 U	< 10.0 UJ	< 9.5 U
Benzaldehyde	SW8270C	ug/L	NE	19	< 47.6 UJ	< 47.6 UJ	< 50.0 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 45.5 UJ	< 45.5 UJ	< 45.5 UJ	< 50.0 U	< 50.0 UJ	< 47.6 U
Benzyl alcohol	SW8270C	ug/L	NE	200	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
Benzyl butyl phthalate	SW8270C	ug/L	NE	16	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 10.0 U	< 9.5 UJ
beta-Naphthylamine	SW8270C	ug/L	NE	0.039	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
Biphenyl	SW8270C	ug/L	NE	0.083	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 U	< 10.0 UJ	< 9.5 U
Bis(2-chloroethoxy)methane	SW8270C	ug/L	NE	5.9	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U
Bis(2-ethylhexyl)phthalate	SW8270C	ug/L	6	5.6	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 10.0 U	< 9.5 UJ
Caprolactam	SW8270C	ug/L	NE	990	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ
Carbazole	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 UJ	< 9.1 U	< 9.1 U	< 10.0 UJ	< 10.0 U	< 9.5 UJ
Chlorobenzilate	SW8270C	ug/L	NE	0.31	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 UJ	< 10.0 U	< 9.5 UJ

Notes and definitions are presented on Page 7

Table 4a: Q4 2020 Validated Data for Semivolatile Organic Compounds
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				Sample Location	PZ-202-SS	PZ-203-SS	PZ-204A-SS	PZ-204-SS	PZ-205-AS	PZ-205-SS	PZ-206-SS	PZ-207-AS	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SS	PZ-302-AI	PZ-302-AS
				Sample Depth (ft BGS)	40.2 - 89.1	99.6 - 109.4	79.5 - 89.1	10.95 - 89.35	38.55 - 48.35	88.57 - 98.37	115 - 124.8	34.9 - 39.7	140 - 150	138 - 148	237 - 247	137 - 147	32.6 - 42.4	12.2 - 22
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	12-02-2020	11-16-2020	12-04-2020	12-04-2020	11-11-2020	11-11-2020	11-10-2020	12-01-2020	11-04-2020	11-03-2020	11-03-2020	12-04-2020	12-01-2020	11-30-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Semivolatile Organic Compounds, Total (#–C)																		
1,2,4,5-Tetrachlorobenzene	SW8270C	ug/L	NE	0.17	< 9.1 UJ	< 10.5 UJ	< 10.5 UJ	< 9.1 UJ	< 45.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 10.5 UJ	< 10.0 UJ	< 10.0 UJ
1,3,5-Trinitrobenzene	SW8270C	ug/L	NE	59	< 18.2 UJ	< 21.1 U	< 21.1 U	< 18.2 U	< 90.9 U	< 18.2 U	< 20.0 U	< 18.2 UJ	< 18.2 UJ	< 18.2 UJ	< 19.0 UJ	< 21.1 U	< 20.0 UJ	< 20.0 UJ
1,3-Dinitrobenzene	SW8270C	ug/L	NE	0.2	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
1,4-Naphthoquinone	SW8270C	ug/L	NE	NE	< 18.2 U	< 21.1 U	< 21.1 U	< 18.2 U	< 90.9 U	< 18.2 U	< 20.0 U	< 18.2 U	< 18.2 U	< 18.2 U	< 19.0 U	< 21.1 U	< 20.0 U	< 20.0 U
2,2-Oxybis(1-chloropropane)	SW8270C	ug/L	NE	71	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2,3,4,6-Tetrachlorophenol	SW8270C	ug/L	NE	24	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2,4,5-Trichlorophenol	SW8270C	ug/L	NE	120	< 9.1 UJ	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2,4,6-Trichlorophenol	SW8270C	ug/L	NE	1.2	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2,4-Dichlorophenol	SW8270C	ug/L	NE	4.6	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2,4-Dimethylphenol	SW8270C	ug/L	NE	36	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2,4-Dinitrophenol	SW8270C	ug/L	NE	3.9	< 45.5 U	< 52.6 U	< 52.6 U	< 45.5 U	< 227 U	< 45.5 U	< 50.0 U	< 45.5 U	< 45.5 U	< 45.5 U	< 47.6 U	< 52.6 U	< 50.0 U	< 50.0 U
2,4-Dinitrotoluene	SW8270C	ug/L	NE	0.24	< 9.1 U	< 10.5 UJ	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2,6-Dichlorophenol	SW8270C	ug/L	NE	NE	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2,6-Dinitrotoluene	SW8270C	ug/L	NE	0.049	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2-Acetylaminofluorene	SW8270C	ug/L	NE	0.016	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2-Chloronaphthalene	SW8270C	ug/L	NE	75	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2-Chlorophenol	SW8270C	ug/L	NE	9.1	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2-Nitroaniline	SW8270C	ug/L	NE	19	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
2-Nitrophenol	SW8270C	ug/L	NE	NE	< 9.1 U	< 10.5 UJ	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
3,3'-Dichlorobenzidine	SW8270C	ug/L	NE	0.13	< 18.2 U	< 21.1 U	< 21.1 U	< 18.2 U	< 90.9 U	< 18.2 U	< 20.0 U	< 18.2 U	< 18.2 U	< 18.2 U	< 19.0 U	< 21.1 U	< 20.0 U	< 20.0 U
3-Methylcholanthrene	SW8270C	ug/L	NE	0.0011	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
3-Nitroaniline	SW8270C	ug/L	NE	NE	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
4-Aminobiphenyl	SW8270C	ug/L	NE	0.003	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
4-Bromophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
4-Chloro-3-methylphenol	SW8270C	ug/L	NE	140	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
4-Chlorophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
4-Dimethylaminoazobenzene	SW8270C	ug/L	NE	0.005	< 9.1 UJ	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 10.5 U	< 10.0 UJ	< 10.0 UJ
4-Nitrophenol	SW8270C	ug/L	NE	NE	< 45.5 U	< 52.6 U	< 52.6 U	< 45.5 U	< 227 U	< 45.5 U	< 50.0 U	< 45.5 U	< 45.5 U	< 45.5 U	< 47.6 U	< 52.6 U	< 50.0 U	< 50.0 U
5-Nitro-o-toluidine	SW8270C	ug/L	NE	8.2	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
7,12-Dimethylbenz(a)anthracene	SW8270C	ug/L	NE	0.0001	< 18.2 U	< 21.1 U	< 21.1 U	< 18.2 U	< 90.9 U	< 18.2 U	< 20.0 U	< 18.2 U	< 18.2 U	< 18.2 U	< 19.0 U	< 21.1 U	< 20.0 U	< 20.0 U
Acetophenone	SW8270C	ug/L	NE	190	< 9.1 UJ	< 10.5 UJ	< 10.5 UJ	< 9.1 UJ	< 45.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 10.5 UJ	< 10.0 UJ	< 10.0 UJ
alpha-Naphthylamine	SW8270C	ug/L	NE	NE	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
Atrazine	SW8270C	ug/L	3	0.3	< 9.1 UJ	< 10.5 UJ	< 10.5 UJ	< 9.1 UJ	< 45.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 10.5 UJ	< 10.0 UJ	< 10.0 UJ
Benzaldehyde	SW8270C	ug/L	NE	19	< 45.5 UJ	< 52.6 UJ	< 52.6 UJ	< 45.5 UJ	< 227 UJ	< 45.5 UJ	< 50.0 UJ	< 45.5 UJ	< 45.5 UJ	< 45.5 UJ	< 47.6 UJ	< 52.6 UJ	< 50.0 UJ	< 50.0 UJ
Benzyl alcohol	SW8270C	ug/L	NE	200	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
Benzyl butyl phthalate	SW8270C	ug/L	NE	16	< 9.1 U	< 10.5 U	< 10.5 UJ	< 9.1 UJ	< 45.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 UJ	< 10.0 U	< 10.0 U
beta-Naphthylamine	SW8270C	ug/L	NE	0.039	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
Biphenyl	SW8270C	ug/L	NE	0.083	< 9.1 UJ	< 10.5 UJ	< 10.5 UJ	< 9.1 UJ	< 45.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 10.5 UJ	< 10.0 UJ	< 10.0 UJ
Bis(2-chloroethoxy)methane	SW8270C	ug/L	NE	5.9	< 9.1 U	< 10.5 U	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U
Bis(2-ethylhexyl)phthalate	SW8270C	ug/L	6	5.6	< 9.1 U	< 10.5 UJ	< 10.5 UJ	< 9.1 UJ	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 UJ	< 10.0 U	< 10.0 U
Caprolactam	SW8270C	ug/L	NE	990	**538 J**	< 10.5 UJ	**22.7 J**	< 9.1 UJ	**607 J**	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 10.5 UJ	< 10.0 UJ	< 10.0 UJ
Carbazole	SW8270C	ug/L	NE	NE	< 9.1 U	< 10.5 UJ	< 10.5 UJ	< 9.1 UJ	< 45.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 UJ	< 10.0 U	< 10.0 U
Chlorobenzilate	SW8270C	ug/L	NE	0.31	< 9.1 U	< 10.5 UJ	< 10.5 UJ	< 9.1 UJ	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 UJ	< 10.0 U	< 10.0 U

Notes and definitions are presented on Page 7

Table 4a: Q4 2020 Validated Data for Semivolatile Organic Compounds
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				Sample Location	PZ-303-AS	PZ-304-AI	PZ-304-AS	S-5	S-5	S-10	S-82	S-84
				Sample Depth (ft BGS)	16 - 25.8	39 - 48.8	17.1 - 26.9	30 - 40	30 - 40	32 - 52	15.5 - 25.5	20.9 - 30.9
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	12-04-2020	12-02-2020	12-02-2020	11-20-2020	11-20-2020	11-13-2020	11-23-2020	11-10-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1								
Semivolatile Organic Compounds, Total (#–C)												
1,2,4,5-Tetrachlorobenzene	SW8270C	ug/L	NE	0.17	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ
1,3,5-Trinitrobenzene	SW8270C	ug/L	NE	59	< 19.0 U	< 19.0 UJ	< 19.0 UJ	< 18.2 UJ	< 19.0 UJ	< 18.2 UJ	< 19.0 U	< 19.0 U
1,3-Dinitrobenzene	SW8270C	ug/L	NE	0.2	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
1,4-Naphthoquinone	SW8270C	ug/L	NE	NE	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 19.0 U	< 18.2 U	< 19.0 U	< 19.0 U
2,2-Oxybis(1-chloropropane)	SW8270C	ug/L	NE	71	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2,3,4,6-Tetrachlorophenol	SW8270C	ug/L	NE	24	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2,4,5-Trichlorophenol	SW8270C	ug/L	NE	120	< 9.5 U	< 9.5 UJ	< 9.5 UJ	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2,4,6-Trichlorophenol	SW8270C	ug/L	NE	1.2	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2,4-Dichlorophenol	SW8270C	ug/L	NE	4.6	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2,4-Dimethylphenol	SW8270C	ug/L	NE	36	**135**	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2,4-Dinitrophenol	SW8270C	ug/L	NE	3.9	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U	< 47.6 U	< 45.5 U	< 47.6 U	< 47.6 U
2,4-Dinitrotoluene	SW8270C	ug/L	NE	0.24	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2,6-Dichlorophenol	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2,6-Dinitrotoluene	SW8270C	ug/L	NE	0.049	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2-Acetylaminofluorene	SW8270C	ug/L	NE	0.016	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2-Chloronaphthalene	SW8270C	ug/L	NE	75	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2-Chlorophenol	SW8270C	ug/L	NE	9.1	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2-Nitroaniline	SW8270C	ug/L	NE	19	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
2-Nitrophenol	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 UJ	< 9.5 U
3,3'-Dichlorobenzidine	SW8270C	ug/L	NE	0.13	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 19.0 U	< 18.2 U	< 19.0 U	< 19.0 U
3-Methylcholanthrene	SW8270C	ug/L	NE	0.0011	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
3-Nitroaniline	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
4-Aminobiphenyl	SW8270C	ug/L	NE	0.003	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
4-Bromophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
4-Chloro-3-methylphenol	SW8270C	ug/L	NE	140	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
4-Chlorophenyl phenyl ether	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
4-Dimethylaminoazobenzene	SW8270C	ug/L	NE	0.005	< 9.5 U	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 U	< 9.5 U
4-Nitrophenol	SW8270C	ug/L	NE	NE	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U	< 47.6 U	< 45.5 U	< 47.6 U	< 47.6 U
5-Nitro-o-toluidine	SW8270C	ug/L	NE	8.2	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
7,12-Dimethylbenz(a)anthracene	SW8270C	ug/L	NE	0.0001	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 19.0 U	< 18.2 U	< 19.0 U	< 19.0 U
Acetophenone	SW8270C	ug/L	NE	190	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ
alpha-Naphthylamine	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Atrazine	SW8270C	ug/L	3	0.3	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ
Benzaldehyde	SW8270C	ug/L	NE	19	< 47.6 UJ	< 47.6 UJ	< 47.6 UJ	< 45.5 UJ	< 47.6 UJ	< 45.5 UJ	< 47.6 UJ	< 47.6 UJ
Benzyl alcohol	SW8270C	ug/L	NE	200	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Benzyl butyl phthalate	SW8270C	ug/L	NE	16	< 9.5 UJ	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 UJ	< 9.5 UJ
beta-Naphthylamine	SW8270C	ug/L	NE	0.039	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Biphenyl	SW8270C	ug/L	NE	0.083	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ
Bis(2-chloroethoxy)methane	SW8270C	ug/L	NE	5.9	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Bis(2-ethylhexyl)phthalate	SW8270C	ug/L	6	5.6	< 9.5 UJ	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 UJ	< 9.5 U
Caprolactam	SW8270C	ug/L	NE	990	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ
Carbazole	SW8270C	ug/L	NE	NE	< 9.5 UJ	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 UJ
Chlorobenzilate	SW8270C	ug/L	NE	0.31	< 9.5 UJ	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U

Notes and definitions are presented on Page 7

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

Validated Data for Semivolatile Organic Compounds have been split into two tables, alphabetically, to aid in readability. Chemical names starting with number 0–9 through letter C are shown on Table 4a; chemical names starting with letter D through Z are shown on Table 4b.

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

Table 4b: Q4 2020 Validated Data for Semivolatile Organic Compounds
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65	I-66	I-67
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36	26.9 - 36.9	25.4 - 35.4
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020	11-05-2020	11-10-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1															
Semivolatile Organic Compounds, Total (D–Z)																			
Diallate	SW8270C	ug/L	NE	0.54	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Dibenzofuran	SW8270C	ug/L	NE	0.79	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Dibutyl phthalate	SW8270C	ug/L	NE	90	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 UJ	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 UJ	< 9.5 UJ	< 9.1 U	< 10.0 UJ	< 9.1 UJ	< 10.0 U	< 9.5 U
Dichloroethyl ether	SW8270C	ug/L	NE	0.014	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Diethyl phthalate	SW8270C	ug/L	NE	1,500	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Dimethoate	SW8270C	ug/L	NE	4.4	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Dimethyl phthalate	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Dinitro-o-cresol	SW8270C	ug/L	NE	0.15	< 18.2 U	< 18.2 U	< 18.2 U	< 19.0 U	< 19.0 U	< 18.2 U	< 18.2 U	< 20.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 20.0 U	< 18.2 U	< 20.0 U	< 19.0 U
Di-n-octyl phthalate	SW8270C	ug/L	NE	20	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 UJ	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 UJ	< 9.5 UJ	< 9.1 U	< 10.0 UJ	< 9.1 UJ	< 10.0 U	< 9.5 U
Diphenylamine	SW8270C	ug/L	NE	130	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Disulfoton	SW8270C	ug/L	NE	0.05	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Ethyl methanesulfonate	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Famphur	SW8270C	ug/L	NE	NE	< 182 UJ	< 182 UJ	< 182 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 182 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 200 UJ	< 182 UJ	< 200 UJ	< 190 UJ
Hexachlorobenzene	SW8270C	ug/L	1	0.0098	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Hexachlorobutadiene	SW8270C	ug/L	NE	0.14	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Hexachlorocyclopentadiene	SW8270C	ug/L	50	0.041	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Hexachloroethane	SW8270C	ug/L	NE	0.33	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Hexachlorophene	SW8270C	ug/L	NE	0.6	< 182 UJ	< 182 UJ	< 182 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 182 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 200 UJ	< 182 UJ	< 200 UJ	< 190 UJ
Hexachloropropene	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Isodrin	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Isophorone	SW8270C	ug/L	NE	78	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Isosafrole	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Kepone	SW8270C	ug/L	NE	0.0035	< 182 UJ	< 182 UJ	< 182 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 182 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 200 UJ	< 182 UJ	< 200 UJ	< 190 UJ
m,p-cresol	SW8270C	ug/L	NE	93	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Methapyrilene	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Methyl methanesulfonate	SW8270C	ug/L	NE	0.79	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Methyl parathion	SW8270C	ug/L	NE	0.45	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Nitrobenzene	SW8270C	ug/L	NE	0.14	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
n-Nitrosodiethylamine	SW8270C	ug/L	NE	0.00017	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
n-Nitrosodimethylamine	SW8270C	ug/L	NE	0.00011	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
n-Nitrosodi-n-butylamine	SW8270C	ug/L	NE	0.0027	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
n-Nitrosodi-n-propylamine	SW8270C	ug/L	NE	0.011	< 45.5 U	< 45.5 U	< 45.5 U	< 47.6 U	< 47.6 U	< 45.5 U	< 45.5 U	< 50.0 U	< 47.6 U	< 47.6 U	< 45.5 U	< 50.0 U	< 45.5 U	< 50.0 U	< 47.6 U
n-Nitrosodiphenylamine	SW8270C	ug/L	NE	12	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 10.0 UJ	< 9.5 UJ
n-Nitrosomethylethylamine	SW8270C	ug/L	NE	0.00071	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
n-Nitrosopiperidine	SW8270C	ug/L	NE	0.0082	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
n-Nitrosopyrrolidine	SW8270C	ug/L	NE	0.037	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
o-Cresol	SW8270C	ug/L	NE	93	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
o-Tolidine	SW8270C	ug/L	NE	0.0065	< 18.2 UJ	< 18.2 UJ	< 18.2 UJ	< 19.0 UJ	< 19.0 UJ	< 18.2 UJ	< 18.2 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 18.2 UJ	< 20.0 UJ	< 18.2 UJ	< 20.0 UJ	< 19.0 UJ
o-Toluidine	SW8270C	ug/L	NE	4.7	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Parathion	SW8270C	ug/L	NE	8.6	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
p-Chloroaniline	SW8270C	ug/L	NE	0.37	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Pentachlorobenzene	SW8270C	ug/L	NE	0.32	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Pentachloronitrobenzene	SW8270C	ug/L	NE	0.12	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Pentachlorophenol	SW8270C	ug/L	1	0.041	< 45.5 U	< 45.5 U	< 45.5 U	< 47.6 U	< 47.6 U	< 45.5 U	< 45.5 U	< 50.0 U	< 47.6 U	< 47.6 U	< 45.5 U	< 50.0 U	< 45.5 U	< 50.0 U	< 47.6 U
Phenacetin	SW8270C	ug/L	NE	34	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Phenol	SW8270C	ug/L	NE	580	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Phorate	SW8270C	ug/L	NE	0.3	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
p-Nitroaniline	SW8270C	ug/L	NE	3.8	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
p-Phenylene diamine	SW8270C	ug/L	NE	2	< 18.2 UJ	< 18.2 UJ	< 18.2 UJ	< 19.0 UJ	< 19.0 U	< 18.2 UJ	< 18.2 UJ	< 20.0 UJ	< 19.0 U	< 19.0 U	< 18.2 UJ	< 20.0 U	< 18.2 U	< 20.0 UJ	< 19.0 U
Propyzamide	SW8270C	ug/L	NE	120	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Safrole	SW8270C	ug/L	NE	0.096	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Thionazin	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U
Triethylphosphorothioate	SW8270C	ug/L	NE	NE	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 10.0 U	< 9.5 U

Notes and definitions are presented on Page 7

Table 4b: Q4 2020 Validated Data for Semivolatile Organic Compounds
West Lake Landfill OU-3
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				Sample Location	I-68	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS	PZ-102-SS	PZ-103-SS	PZ-103-SS
				Sample Depth (ft BGS)	21.2 - 31.2	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63	79.7 - 89.5	134.7 - 144.5	134.7 - 144.5
				Sample Type	N	N	N	N	FD	N	N	N	N	N	N	N	FD
				Sample Date	11-24-2020	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020	11-06-2020	12-03-2020	12-03-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1													
Semivolatile Organic Compounds, Total (D–Z)																	
Diallate	SW8270C	ug/L	NE	0.54	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Dibenzofuran	SW8270C	ug/L	NE	0.79	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Dibutyl phthalate	SW8270C	ug/L	NE	90	< 9.1 UJ	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Dichloroethyl ether	SW8270C	ug/L	NE	0.014	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Diethyl phthalate	SW8270C	ug/L	NE	1,500	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Dimethoate	SW8270C	ug/L	NE	4.4	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Dimethyl phthalate	SW8270C	ug/L	NE	NE	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Dinitro-o-cresol	SW8270C	ug/L	NE	0.15	< 18.2 U	< 95.2 U	< 19.0 U	< 19.0 U	< 19.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 19.0 U
Di-n-octyl phthalate	SW8270C	ug/L	NE	20	< 9.1 UJ	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Diphenylamine	SW8270C	ug/L	NE	130	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Disulfoton	SW8270C	ug/L	NE	0.05	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Ethyl methanesulfonate	SW8270C	ug/L	NE	NE	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Famphur	SW8270C	ug/L	NE	NE	< 182 UJ	< 952 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 190 UJ
Hexachlorobenzene	SW8270C	ug/L	1	0.0098	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Hexachlorobutadiene	SW8270C	ug/L	NE	0.14	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Hexachlorocyclopentadiene	SW8270C	ug/L	50	0.041	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Hexachloroethane	SW8270C	ug/L	NE	0.33	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Hexachlorophene	SW8270C	ug/L	NE	0.6	< 182 UJ	< 952 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 190 UJ
Hexachloropropene	SW8270C	ug/L	NE	NE	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Isodrin	SW8270C	ug/L	NE	NE	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Isophorone	SW8270C	ug/L	NE	78	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Isosafrole	SW8270C	ug/L	NE	NE	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Kepone	SW8270C	ug/L	NE	0.0035	< 182 UJ	< 952 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 190 UJ
m,p-cresol	SW8270C	ug/L	NE	93	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Methapyrilene	SW8270C	ug/L	NE	NE	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Methyl methanesulfonate	SW8270C	ug/L	NE	0.79	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Methyl parathion	SW8270C	ug/L	NE	0.45	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Nitrobenzene	SW8270C	ug/L	NE	0.14	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
n-Nitrosodiethylamine	SW8270C	ug/L	NE	0.00017	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
n-Nitrosodimethylamine	SW8270C	ug/L	NE	0.00011	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
n-Nitrosodi-n-butylamine	SW8270C	ug/L	NE	0.0027	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
n-Nitrosodi-n-propylamine	SW8270C	ug/L	NE	0.011	< 45.5 U	< 238 U	< 47.6 U	< 47.6 U	< 47.6 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U	< 47.6 U
n-Nitrosodiphenylamine	SW8270C	ug/L	NE	12	< 9.1 UJ	< 47.6 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ
n-Nitrosomethylethylamine	SW8270C	ug/L	NE	0.00071	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
n-Nitrosopiperidine	SW8270C	ug/L	NE	0.0082	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
n-Nitrosopyrrolidine	SW8270C	ug/L	NE	0.037	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
o-Cresol	SW8270C	ug/L	NE	93	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
o-Tolidine	SW8270C	ug/L	NE	0.0065	< 18.2 UJ	< 95.2 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 18.2 UJ	< 19.0 UJ
o-Toluidine	SW8270C	ug/L	NE	4.7	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Parathion	SW8270C	ug/L	NE	8.6	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
p-Chloroaniline	SW8270C	ug/L	NE	0.37	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Pentachlorobenzene	SW8270C	ug/L	NE	0.32	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Pentachloronitrobenzene	SW8270C	ug/L	NE	0.12	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Pentachlorophenol	SW8270C	ug/L	1	0.041	< 45.5 U	< 238 U	< 47.6 U	< 47.6 U	< 47.6 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U	< 47.6 U
Phenacetin	SW8270C	ug/L	NE	34	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Phenol	SW8270C	ug/L	NE	580	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Phorate	SW8270C	ug/L	NE	0.3	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
p-Nitroaniline	SW8270C	ug/L	NE	3.8	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
p-Phenylene diamine	SW8270C	ug/L	NE	2	< 18.2 U	< 95.2 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 18.2 UJ	< 19.0 UJ
Propyzamide	SW8270C	ug/L	NE	120	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Safrole	SW8270C	ug/L	NE	0.096	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Thionazin	SW8270C	ug/L	NE	NE	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U
Triethylphosphorothioate	SW8270C	ug/L	NE	NE	< 9.1 U	< 47.6 U	< 9.5 U	< 9.5 U	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.5 U

Notes and definitions are presented on Page 7

Table 4b: Q4 2020 Validated Data for Semivolatile Organic Compounds
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				Sample Location	PZ-104-KS	PZ-104-SD	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS	PZ-107-SS	PZ-109-SS	PZ-109-SS	PZ-111-KS
				Sample Depth (ft BGS)	397.37 - 407.17	235.2 - 245	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5	357.15 - 366.96
				Sample Type	N	N	N	N	N	N	FD	N	N	N	FD	N
				Sample Date	12-03-2020	11-04-2020	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020	12-03-2020	11-10-2020	11-10-2020	11-09-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1												
Semivolatile Organic Compounds, Total (D–Z)																
Diallate	SW8270C	ug/L	NE	0.54	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Dibenzofuran	SW8270C	ug/L	NE	0.79	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Dibutyl phthalate	SW8270C	ug/L	NE	90	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Dichloroethyl ether	SW8270C	ug/L	NE	0.014	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Diethyl phthalate	SW8270C	ug/L	NE	1,500	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Dimethoate	SW8270C	ug/L	NE	4.4	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Dimethyl phthalate	SW8270C	ug/L	NE	NE	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Dinitro-o-cresol	SW8270C	ug/L	NE	0.15	< 20.0 U	< 18.2 U	< 19.0 U	< 20.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U
Di-n-octyl phthalate	SW8270C	ug/L	NE	20	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Diphenylamine	SW8270C	ug/L	NE	130	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Disulfoton	SW8270C	ug/L	NE	0.05	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Ethyl methanesulfonate	SW8270C	ug/L	NE	NE	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Famphur	SW8270C	ug/L	NE	NE	< 200 UJ	< 182 UJ	< 190 UJ	< 200 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ
Hexachlorobenzene	SW8270C	ug/L	1	0.0098	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Hexachlorobutadiene	SW8270C	ug/L	NE	0.14	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Hexachlorocyclopentadiene	SW8270C	ug/L	50	0.041	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Hexachloroethane	SW8270C	ug/L	NE	0.33	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Hexachlorophene	SW8270C	ug/L	NE	0.6	< 200 UJ	< 182 UJ	< 190 UJ	< 200 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ
Hexachloropropene	SW8270C	ug/L	NE	NE	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Isodrin	SW8270C	ug/L	NE	NE	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Isophorone	SW8270C	ug/L	NE	78	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Isosafrole	SW8270C	ug/L	NE	NE	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Kepone	SW8270C	ug/L	NE	0.0035	< 200 UJ	< 182 UJ	< 190 UJ	< 200 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ
m,p-cresol	SW8270C	ug/L	NE	93	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Methapyrilene	SW8270C	ug/L	NE	NE	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Methyl methanesulfonate	SW8270C	ug/L	NE	0.79	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Methyl parathion	SW8270C	ug/L	NE	0.45	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Nitrobenzene	SW8270C	ug/L	NE	0.14	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
n-Nitrosodiethylamine	SW8270C	ug/L	NE	0.00017	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
n-Nitrosodimethylamine	SW8270C	ug/L	NE	0.00011	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
n-Nitrosodi-n-butylamine	SW8270C	ug/L	NE	0.0027	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
n-Nitrosodi-n-propylamine	SW8270C	ug/L	NE	0.011	< 50.0 U	< 45.5 U	< 47.6 U	< 50.0 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U
n-Nitrosodiphenylamine	SW8270C	ug/L	NE	12	< 10.0 UJ	< 9.1 UJ	< 9.5 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
n-Nitrosomethylethylamine	SW8270C	ug/L	NE	0.00071	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
n-Nitrosopiperidine	SW8270C	ug/L	NE	0.0082	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
n-Nitrosopyrrolidine	SW8270C	ug/L	NE	0.037	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
o-Cresol	SW8270C	ug/L	NE	93	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
o-Tolidine	SW8270C	ug/L	NE	0.0065	< 20.0 UJ	< 18.2 UJ	< 19.0 UJ	< 20.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ
o-Toluidine	SW8270C	ug/L	NE	4.7	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Parathion	SW8270C	ug/L	NE	8.6	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
p-Chloroaniline	SW8270C	ug/L	NE	0.37	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Pentachlorobenzene	SW8270C	ug/L	NE	0.32	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Pentachloronitrobenzene	SW8270C	ug/L	NE	0.12	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Pentachlorophenol	SW8270C	ug/L	1	0.041	< 50.0 U	< 45.5 U	< 47.6 U	< 50.0 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U
Phenacetin	SW8270C	ug/L	NE	34	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Phenol	SW8270C	ug/L	NE	580	< 10.0 U	**9.0 J**	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Phorate	SW8270C	ug/L	NE	0.3	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
p-Nitroaniline	SW8270C	ug/L	NE	3.8	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
p-Phenylene diamine	SW8270C	ug/L	NE	2	< 20.0 UJ	< 18.2 UJ	< 19.0 UJ	< 20.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 U	< 19.0 UJ	< 19.0 U	< 19.0 U	< 19.0 UJ
Propyzamide	SW8270C	ug/L	NE	120	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Safrole	SW8270C	ug/L	NE	0.096	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Thionazin	SW8270C	ug/L	NE	NE	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Triethylphosphorothioate	SW8270C	ug/L	NE	NE	< 10.0 U	< 9.1 U	< 9.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U

Notes and definitions are presented on Page 7

Table 4b: Q4 2020 Validated Data for Semivolatile Organic Compounds
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				Sample Location	PZ-111-SD	PZ-111-SS	PZ-113-AD	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS	PZ-115-SS	PZ-116-SS	PZ-200-SS	PZ-201A-SS	PZ-202-SS	PZ-203-SS
				Sample Depth (ft BGS)	199.4 - 209.2	105.5 - 115.5	98.6 - 108.4	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48	74.68 - 84.48	151.4 - 161	9.62 - 97.64	80 - 89.8	40.2 - 89.1	99.6 - 109.4
				Sample Type	N	N	N	FD	N	N	N	N	FD	N	N	N	N	N
				Sample Date	11-09-2020	11-09-2020	11-05-2020	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020	11-24-2020	12-04-2020	12-02-2020	12-04-2020	12-02-2020	11-16-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1														
Semivolatile Organic Compounds, Total (D–Z)																		
Diallate	SW8270C	ug/L	NE	0.54	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Dibenzofuran	SW8270C	ug/L	NE	0.79	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Dibutyl phthalate	SW8270C	ug/L	NE	90	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 UJ	< 9.1 UJ	< 10.0 UJ	< 10.0 U	< 9.5 UJ	< 9.1 U	< 10.5 UJ
Dichloroethyl ether	SW8270C	ug/L	NE	0.014	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Diethyl phthalate	SW8270C	ug/L	NE	1,500	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Dimethoate	SW8270C	ug/L	NE	4.4	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Dimethyl phthalate	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Dinitro-o-cresol	SW8270C	ug/L	NE	0.15	< 19.0 U	< 20.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 19.0 U	< 18.2 U	< 18.2 U	< 18.2 U	< 20.0 U	< 20.0 U	< 19.0 U	< 18.2 U	< 21.1 U
Di-n-octyl phthalate	SW8270C	ug/L	NE	20	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 UJ	< 9.1 UJ	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 UJ
Diphenylamine	SW8270C	ug/L	NE	130	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Disulfoton	SW8270C	ug/L	NE	0.05	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Ethyl methanesulfonate	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Famphur	SW8270C	ug/L	NE	NE	< 190 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 182 UJ	< 182 UJ	< 200 U	< 200 UJ	< 190 U	< 182 UJ	< 211 UJ
Hexachlorobenzene	SW8270C	ug/L	1	0.0098	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Hexachlorobutadiene	SW8270C	ug/L	NE	0.14	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Hexachlorocyclopentadiene	SW8270C	ug/L	50	0.041	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Hexachloroethane	SW8270C	ug/L	NE	0.33	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Hexachlorophene	SW8270C	ug/L	NE	0.6	< 190 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 182 UJ	< 182 UJ	< 200 UJ	< 200 UJ	< 190 UJ	< 182 UJ	< 211 UJ
Hexachloropropene	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Isodrin	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Isophorone	SW8270C	ug/L	NE	78	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Isosafrole	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Kepone	SW8270C	ug/L	NE	0.0035	< 190 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 190 UJ	< 182 UJ	< 182 UJ	< 182 UJ	< 200 U	< 200 UJ	< 190 U	< 182 UJ	< 211 UJ
m,p-cresol	SW8270C	ug/L	NE	93	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Methapyrilene	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Methyl methanesulfonate	SW8270C	ug/L	NE	0.79	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Methyl parathion	SW8270C	ug/L	NE	0.45	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Nitrobenzene	SW8270C	ug/L	NE	0.14	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
n-Nitrosodiethylamine	SW8270C	ug/L	NE	0.00017	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
n-Nitrosodimethylamine	SW8270C	ug/L	NE	0.00011	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
n-Nitrosodi-n-butylamine	SW8270C	ug/L	NE	0.0027	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
n-Nitrosodi-n-propylamine	SW8270C	ug/L	NE	0.011	< 47.6 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U	< 45.5 U	< 45.5 U	< 50.0 U	< 50.0 U	< 47.6 U	< 45.5 U	< 52.6 U
n-Nitrosodiphenylamine	SW8270C	ug/L	NE	12	< 9.5 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 10.0 U	< 10.0 UJ	< 9.5 U	< 9.1 UJ	< 10.5 UJ
n-Nitrosomethylethylamine	SW8270C	ug/L	NE	0.00071	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
n-Nitrosopiperidine	SW8270C	ug/L	NE	0.0082	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
n-Nitrosopyrrolidine	SW8270C	ug/L	NE	0.037	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
o-Cresol	SW8270C	ug/L	NE	93	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
o-Tolidine	SW8270C	ug/L	NE	0.0065	< 19.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 18.2 UJ	< 18.2 UJ	< 18.2 UJ	< 20.0 U	< 20.0 UJ	< 19.0 U	< 18.2 UJ	< 21.1 UJ
o-Toluidine	SW8270C	ug/L	NE	4.7	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Parathion	SW8270C	ug/L	NE	8.6	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
p-Chloroaniline	SW8270C	ug/L	NE	0.37	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Pentachlorobenzene	SW8270C	ug/L	NE	0.32	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Pentachloronitrobenzene	SW8270C	ug/L	NE	0.12	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Pentachlorophenol	SW8270C	ug/L	1	0.041	< 47.6 U	< 50.0 U	< 47.6 U	< 47.6 U	< 47.6 U	< 47.6 U	< 45.5 U	< 45.5 U	< 45.5 U	< 50.0 U	< 50.0 U	< 47.6 U	< 45.5 U	< 52.6 U
Phenacetin	SW8270C	ug/L	NE	34	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Phenol	SW8270C	ug/L	NE	580	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Phorate	SW8270C	ug/L	NE	0.3	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
p-Nitroaniline	SW8270C	ug/L	NE	3.8	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
p-Phenylene diamine	SW8270C	ug/L	NE	2	< 19.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 18.2 U	< 18.2 U	< 18.2 U	< 20.0 U	< 20.0 UJ	< 19.0 U	< 18.2 UJ	< 21.1 U
Propyzamide	SW8270C	ug/L	NE	120	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Safrole	SW8270C	ug/L	NE	0.096	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Thionazin	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U
Triethylphosphorothioate	SW8270C	ug/L	NE	NE	< 9.5 U	< 10.0 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.1 U	< 9.1 U	< 9.1 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.1 U	< 10.5 U

Notes and definitions are presented on Page 7

Table 4b: Q4 2020 Validated Data for Semivolatile Organic Compounds
West Lake Landfill OU-3
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				Sample Location	PZ-204A-SS	PZ-204-SS	PZ-205-AS	PZ-205-SS	PZ-206-SS	PZ-207-AS	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SS	PZ-302-AI	PZ-302-AS	PZ-303-AS	PZ-304-AI
				Sample Depth (ft BGS)	79.5 - 89.1	10.95 - 89.35	38.55 - 48.35	88.57 - 98.37	115 - 124.8	34.9 - 39.7	140 - 150	138 - 148	237 - 247	137 - 147	32.6 - 42.4	12.2 - 22	16 - 25.8	39 - 48.8
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	12-04-2020	12-04-2020	11-11-2020	11-11-2020	11-10-2020	12-01-2020	11-04-2020	11-03-2020	11-03-2020	12-04-2020	12-01-2020	11-30-2020	12-04-2020	12-02-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Semivolatile Organic Compounds, Total (D–Z)																		
Diallate	SW8270C	ug/L	NE	0.54	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Dibenzofuran	SW8270C	ug/L	NE	0.79	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Dibutyl phthalate	SW8270C	ug/L	NE	90	< 10.5 UJ	< 9.1 UJ	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 UJ	< 10.0 U	< 10.0 U	**6.9 J**	< 9.5 U
Dichloroethyl ether	SW8270C	ug/L	NE	0.014	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Diethyl phthalate	SW8270C	ug/L	NE	1,500	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Dimethoate	SW8270C	ug/L	NE	4.4	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Dimethyl phthalate	SW8270C	ug/L	NE	NE	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Dinitro-o-cresol	SW8270C	ug/L	NE	0.15	< 21.1 U	< 18.2 U	< 90.9 U	< 18.2 U	< 20.0 U	< 18.2 U	< 18.2 U	< 18.2 U	< 19.0 U	< 21.1 U	< 20.0 U	< 20.0 U	< 19.0 U	< 19.0 U
Di-n-octyl phthalate	SW8270C	ug/L	NE	20	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Diphenylamine	SW8270C	ug/L	NE	130	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Disulfoton	SW8270C	ug/L	NE	0.05	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Ethyl methanesulfonate	SW8270C	ug/L	NE	NE	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Famphur	SW8270C	ug/L	NE	NE	< 211 UJ	< 182 UJ	< 909 UJ	< 182 UJ	< 200 UJ	< 182 UJ	< 182 UJ	< 182 UJ	< 190 UJ	< 211 UJ	< 200 UJ	< 200 UJ	< 190 UJ	< 190 UJ
Hexachlorobenzene	SW8270C	ug/L	1	0.0098	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Hexachlorobutadiene	SW8270C	ug/L	NE	0.14	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Hexachlorocyclopentadiene	SW8270C	ug/L	50	0.041	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Hexachloroethane	SW8270C	ug/L	NE	0.33	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Hexachlorophene	SW8270C	ug/L	NE	0.6	< 211 UJ	< 182 UJ	< 909 UJ	< 182 UJ	< 200 UJ	< 182 UJ	< 182 UJ	< 182 UJ	< 190 UJ	< 211 UJ	< 200 UJ	< 200 UJ	< 190 UJ	< 190 UJ
Hexachloropropene	SW8270C	ug/L	NE	NE	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Isodrin	SW8270C	ug/L	NE	NE	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Isophorone	SW8270C	ug/L	NE	78	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Isosafrole	SW8270C	ug/L	NE	NE	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Kepone	SW8270C	ug/L	NE	0.0035	< 211 UJ	< 182 UJ	< 909 UJ	< 182 UJ	< 200 UJ	< 182 UJ	< 182 UJ	< 182 UJ	< 190 UJ	< 211 UJ	< 200 UJ	< 200 UJ	< 190 UJ	< 190 UJ
m,p-cresol	SW8270C	ug/L	NE	93	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Methapyrilene	SW8270C	ug/L	NE	NE	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Methyl methanesulfonate	SW8270C	ug/L	NE	0.79	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Methyl parathion	SW8270C	ug/L	NE	0.45	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Nitrobenzene	SW8270C	ug/L	NE	0.14	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
n-Nitrosodiethylamine	SW8270C	ug/L	NE	0.00017	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
n-Nitrosodimethylamine	SW8270C	ug/L	NE	0.00011	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
n-Nitrosodi-n-butylamine	SW8270C	ug/L	NE	0.0027	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
n-Nitrosodi-n-propylamine	SW8270C	ug/L	NE	0.011	< 52.6 U	< 45.5 U	< 227 U	< 45.5 U	< 50.0 U	< 45.5 U	< 45.5 U	< 45.5 U	< 47.6 U	< 52.6 U	< 50.0 U	< 50.0 U	< 47.6 U	< 47.6 U
n-Nitrosodiphenylamine	SW8270C	ug/L	NE	12	< 10.5 UJ	< 9.1 UJ	< 45.5 UJ	< 9.1 UJ	< 10.0 UJ	< 9.1 UJ	< 9.1 UJ	< 9.1 UJ	< 9.5 UJ	< 10.5 UJ	< 10.0 UJ	< 10.0 UJ	< 9.5 UJ	< 9.5 UJ
n-Nitrosomethylethylamine	SW8270C	ug/L	NE	0.00071	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
n-Nitrosopiperidine	SW8270C	ug/L	NE	0.0082	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
n-Nitrosopyrrolidine	SW8270C	ug/L	NE	0.037	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
o-Cresol	SW8270C	ug/L	NE	93	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
o-Tolidine	SW8270C	ug/L	NE	0.0065	< 21.1 UJ	< 18.2 UJ	< 90.9 UJ	< 18.2 UJ	< 20.0 UJ	< 18.2 UJ	< 18.2 UJ	< 18.2 UJ	< 19.0 UJ	< 21.1 UJ	< 20.0 UJ	< 20.0 UJ	< 19.0 UJ	< 19.0 UJ
o-Toluidine	SW8270C	ug/L	NE	4.7	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Parathion	SW8270C	ug/L	NE	8.6	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
p-Chloroaniline	SW8270C	ug/L	NE	0.37	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Pentachlorobenzene	SW8270C	ug/L	NE	0.32	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Pentachloronitrobenzene	SW8270C	ug/L	NE	0.12	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Pentachlorophenol	SW8270C	ug/L	1	0.041	< 52.6 U	< 45.5 U	< 227 U	< 45.5 U	< 50.0 U	< 45.5 U	< 45.5 U	< 45.5 U	< 47.6 U	< 52.6 U	< 50.0 U	< 50.0 U	< 47.6 U	< 47.6 U
Phenacetin	SW8270C	ug/L	NE	34	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Phenol	SW8270C	ug/L	NE	580	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Phorate	SW8270C	ug/L	NE	0.3	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
p-Nitroaniline	SW8270C	ug/L	NE	3.8	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
p-Phenylene diamine	SW8270C	ug/L	NE	2	< 21.1 U	< 18.2 U	< 90.9 U	< 18.2 U	< 20.0 U	< 18.2 UJ	< 18.2 UJ	< 18.2 UJ	< 19.0 UJ	< 21.1 U	< 20.0 UJ	< 20.0 UJ	< 19.0 U	< 19.0 UJ
Propyzamide	SW8270C	ug/L	NE	120	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Safrole	SW8270C	ug/L	NE	0.096	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Thionazin	SW8270C	ug/L	NE	NE	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U
Triethylphosphorothioate	SW8270C	ug/L	NE	NE	< 10.5 U	< 9.1 U	< 45.5 U	< 9.1 U	< 10.0 U	< 9.1 U	< 9.1 U	< 9.1 U	< 9.5 U	< 10.5 U	< 10.0 U	< 10.0 U	< 9.5 U	< 9.5 U

Notes and definitions are presented on Page 7

Table 4b: Q4 2020 Validated Data for Semivolatile Organic Compounds
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				Sample Location	PZ-304-AS	S-5	S-5	S-10	S-82	S-84
				Sample Depth (ft BGS)	17.1 - 26.9	30 - 40	30 - 40	32 - 52	15.5 - 25.5	20.9 - 30.9
				Sample Type	N	N	FD	N	N	N
				Sample Date	12-02-2020	11-20-2020	11-20-2020	11-13-2020	11-23-2020	11-10-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1						
Semivolatile Organic Compounds, Total (D–Z)										
Diallate	SW8270C	ug/L	NE	0.54	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Dibenzofuran	SW8270C	ug/L	NE	0.79	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Dibutyl phthalate	SW8270C	ug/L	NE	90	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 UJ	< 9.5 U
Dichloroethyl ether	SW8270C	ug/L	NE	0.014	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Diethyl phthalate	SW8270C	ug/L	NE	1,500	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Dimethoate	SW8270C	ug/L	NE	4.4	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Dimethyl phthalate	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Dinitro-o-cresol	SW8270C	ug/L	NE	0.15	< 19.0 U	< 18.2 U	< 19.0 U	< 18.2 U	< 19.0 U	< 19.0 U
Di-n-octyl phthalate	SW8270C	ug/L	NE	20	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 UJ	< 9.5 U
Diphenylamine	SW8270C	ug/L	NE	130	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Disulfoton	SW8270C	ug/L	NE	0.05	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Ethyl methanesulfonate	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Famphur	SW8270C	ug/L	NE	NE	< 190 UJ	< 182 UJ	< 190 UJ	< 182 UJ	< 190 UJ	< 190 UJ
Hexachlorobenzene	SW8270C	ug/L	1	0.0098	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Hexachlorobutadiene	SW8270C	ug/L	NE	0.14	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Hexachlorocyclopentadiene	SW8270C	ug/L	50	0.041	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Hexachloroethane	SW8270C	ug/L	NE	0.33	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Hexachlorophene	SW8270C	ug/L	NE	0.6	< 190 UJ	< 182 UJ	< 190 UJ	< 182 UJ	< 190 UJ	< 190 UJ
Hexachloropropene	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Isodrin	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Isophorone	SW8270C	ug/L	NE	78	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Isosafrole	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Kepone	SW8270C	ug/L	NE	0.0035	< 190 UJ	< 182 UJ	< 190 UJ	< 182 UJ	< 190 UJ	< 190 UJ
m,p-cresol	SW8270C	ug/L	NE	93	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Methapyrilene	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Methyl methanesulfonate	SW8270C	ug/L	NE	0.79	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Methyl parathion	SW8270C	ug/L	NE	0.45	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Nitrobenzene	SW8270C	ug/L	NE	0.14	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
n-Nitrosodiethylamine	SW8270C	ug/L	NE	0.00017	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
n-Nitrosodimethylamine	SW8270C	ug/L	NE	0.00011	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
n-Nitrosodi-n-butylamine	SW8270C	ug/L	NE	0.0027	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
n-Nitrosodi-n-propylamine	SW8270C	ug/L	NE	0.011	< 47.6 U	< 45.5 U	< 47.6 U	< 45.5 U	< 47.6 U	< 47.6 U
n-Nitrosodiphenylamine	SW8270C	ug/L	NE	12	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.1 UJ	< 9.5 UJ	< 9.5 UJ
n-Nitrosomethylethylamine	SW8270C	ug/L	NE	0.00071	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
n-Nitrosopiperidine	SW8270C	ug/L	NE	0.0082	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
n-Nitrosopyrrolidine	SW8270C	ug/L	NE	0.037	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
o-Cresol	SW8270C	ug/L	NE	93	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
o-Tolidine	SW8270C	ug/L	NE	0.0065	< 19.0 UJ	< 18.2 UJ	< 19.0 UJ	< 18.2 UJ	< 19.0 UJ	< 19.0 UJ
o-Toluidine	SW8270C	ug/L	NE	4.7	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Parathion	SW8270C	ug/L	NE	8.6	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
p-Chloroaniline	SW8270C	ug/L	NE	0.37	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Pentachlorobenzene	SW8270C	ug/L	NE	0.32	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Pentachloronitrobenzene	SW8270C	ug/L	NE	0.12	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Pentachlorophenol	SW8270C	ug/L	1	0.041	< 47.6 U	< 45.5 U	< 47.6 U	< 45.5 U	< 47.6 U	< 47.6 U
Phenacetin	SW8270C	ug/L	NE	34	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Phenol	SW8270C	ug/L	NE	580	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Phorate	SW8270C	ug/L	NE	0.3	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
p-Nitroaniline	SW8270C	ug/L	NE	3.8	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
p-Phenylene diamine	SW8270C	ug/L	NE	2	< 19.0 UJ	< 18.2 UJ	< 19.0 UJ	< 18.2 UJ	< 19.0 U	< 19.0 U
Propyzamide	SW8270C	ug/L	NE	120	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Safrole	SW8270C	ug/L	NE	0.096	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Thionazin	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U
Triethylphosphorothioate	SW8270C	ug/L	NE	NE	< 9.5 U	< 9.1 U	< 9.5 U	< 9.1 U	< 9.5 U	< 9.5 U

Notes and definitions are presented on Page 7

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

Validated Data for Semivolatile Organic Compounds have been split into two tables, alphabetically, to aid in readability. Chemical names starting with number 0–9 through letter C are shown on Table 4a; chemical names starting with letter D through Z are shown on Table 4b.

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

Table 5: Q4 2020 Validated Data for Semivolatile Organic Compounds - PAHs
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65	I-66	I-67
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36	26.9 - 36.9	25.4 - 35.4
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020	11-05-2020	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**															
Semivolatile Organic Compounds – PAHs, Total																			
1-Methylnaphthalene	SW8270C-SIM	ug/L	NE	1.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Methylnaphthalene	SW8270C-SIM	ug/L	NE	3.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	**0.23 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthene	SW8270C-SIM	ug/L	NE	53	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	**0.11 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthylene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Anthracene	SW8270C-SIM	ug/L	NE	180	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)anthracene	SW8270C-SIM	ug/L	NE	0.03	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)pyrene	SW8270C-SIM	ug/L	0.2	0.025	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(b)fluoranthene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(g,h,i)perylene	SW8270C-SIM	ug/L	NE	NE	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(k)fluoranthene	SW8270C-SIM	ug/L	NE	2.5	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Chrysene	SW8270C-SIM	ug/L	NE	25	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibenzo(a,h)anthracene	SW8270C-SIM	ug/L	NE	0.025	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Fluoranthene	SW8270C-SIM	ug/L	NE	80	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Fluorene	SW8270C-SIM	ug/L	NE	29	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Indeno(1,2,3-cd)pyrene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Naphthalene	SW8270C-SIM	ug/L	NE	0.12	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	**0.21 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Phenanthrene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.48 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Pyrene	SW8270C-SIM	ug/L	NE	12	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

Notes and definitions are presented on Page 7

Table 5: Q4 2020 Validated Data for Semivolatile Organic Compounds - PAHs
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2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	I-68	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS	PZ-102-SS	PZ-103-SS	PZ-103-SS
				Sample Depth (ft BGS)	21.2 - 31.2	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63	79.7 - 89.5	134.7 - 144.5	134.7 - 144.5
				Sample Type	N	N	N	N	FD	N	N	N	N	N	N	N	FD
				Sample Date	11-24-2020	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020	11-06-2020	12-03-2020	12-03-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Semivolatile Organic Compounds -- PAHs, Total																	
1-Methylnaphthalene	SW8270C-SIM	ug/L	NE	1.1	< 1.0 U	< 1.0 UJ	**1.4**	< 1.1 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Methylnaphthalene	SW8270C-SIM	ug/L	NE	3.6	< 1.0 U	< 1.0 UJ	**1.6**	< 1.1 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthene	SW8270C-SIM	ug/L	NE	53	< 1.0 U	< 1.0 UJ	**0.30 J**	< 1.1 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthylene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 UJ	< 1.0 U	**0.13 J**	**0.13 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.59 J**	**0.73 J**
Anthracene	SW8270C-SIM	ug/L	NE	180	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)anthracene	SW8270C-SIM	ug/L	NE	0.03	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)pyrene	SW8270C-SIM	ug/L	0.2	0.025	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(b)fluoranthene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(g,h,i)perylene	SW8270C-SIM	ug/L	NE	NE	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(k)fluoranthene	SW8270C-SIM	ug/L	NE	2.5	< 0.10 U	**0.15 J-**	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Chrysene	SW8270C-SIM	ug/L	NE	25	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.53 U	< 0.53 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibenzo(a,h)anthracene	SW8270C-SIM	ug/L	NE	0.025	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	**0.061 J**	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Fluoranthene	SW8270C-SIM	ug/L	NE	80	< 1.0 U	< 1.0 UJ	**0.076 J**	< 1.1 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Fluorene	SW8270C-SIM	ug/L	NE	29	< 1.0 U	< 1.0 UJ	**0.40 J**	< 1.1 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Indeno(1,2,3-cd)pyrene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.11 U	< 0.11 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Naphthalene	SW8270C-SIM	ug/L	NE	0.12	< 1.0 U	< 1.0 UJ	**0.37 J**	< 1.1 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.49 J**	< 1.0 U	< 1.0 U	**0.87 J**	< 1.0 U
Phenanthrene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	**0.31 J-**	**0.37 J**	< 1.1 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**9.1**	**8.4**
Pyrene	SW8270C-SIM	ug/L	NE	12	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.1 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

Notes and definitions are presented on Page 7

Table 5: Q4 2020 Validated Data for Semivolatile Organic Compounds - PAHs
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				Sample Location	PZ-104-KS	PZ-104-SD	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS	PZ-107-SS	PZ-109-SS	PZ-109-SS	PZ-111-KS
				Sample Depth (ft BGS)	397.37 - 407.17	235.2 - 245	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5	357.15 - 366.96
				Sample Type	N	N	N	N	N	N	FD	N	N	N	FD	N
				Sample Date	12-03-2020	11-04-2020	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020	12-03-2020	11-10-2020	11-10-2020	11-09-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**												
Semivolatile Organic Compounds -- PAHs, Total																
1-Methylnaphthalene	SW8270C-SIM	ug/L	NE	1.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Methylnaphthalene	SW8270C-SIM	ug/L	NE	3.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthene	SW8270C-SIM	ug/L	NE	53	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthylene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.081 J**	< 1.0 U	< 1.0 U	< 1.0 U
Anthracene	SW8270C-SIM	ug/L	NE	180	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)anthracene	SW8270C-SIM	ug/L	NE	0.03	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)pyrene	SW8270C-SIM	ug/L	0.2	0.025	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(b)fluoranthene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(g,h,i)perylene	SW8270C-SIM	ug/L	NE	NE	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(k)fluoranthene	SW8270C-SIM	ug/L	NE	2.5	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Chrysene	SW8270C-SIM	ug/L	NE	25	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibenzo(a,h)anthracene	SW8270C-SIM	ug/L	NE	0.025	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Fluoranthene	SW8270C-SIM	ug/L	NE	80	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Fluorene	SW8270C-SIM	ug/L	NE	29	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Indeno(1,2,3-cd)pyrene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Naphthalene	SW8270C-SIM	ug/L	NE	0.12	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Phenanthrene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Pyrene	SW8270C-SIM	ug/L	NE	12	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

Notes and definitions are presented on Page 7

Table 5: Q4 2020 Validated Data for Semivolatile Organic Compounds - PAHs
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				Sample Location	PZ-111-SD	PZ-111-SS	PZ-113-AD	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS	PZ-115-SS	PZ-116-SS	PZ-200-SS	PZ-201A-SS	PZ-202-SS	PZ-203-SS
				Sample Depth (ft BGS)	199.4 - 209.2	105.5 - 115.5	98.6 - 108.4	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48	74.68 - 84.48	151.4 - 161	9.62 - 97.64	80 - 89.8	40.2 - 89.1	99.6 - 109.4
				Sample Type	N	N	N	FD	N	N	N	N	FD	N	N	N	N	N
				Sample Date	11-09-2020	11-09-2020	11-05-2020	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020	11-24-2020	12-04-2020	12-02-2020	12-04-2020	12-02-2020	11-16-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Semivolatile Organic Compounds -- PAHs, Total																		
1-Methylnaphthalene	SW8270C-SIM	ug/L	NE	1.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.14 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Methylnaphthalene	SW8270C-SIM	ug/L	NE	3.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.18 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthene	SW8270C-SIM	ug/L	NE	53	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthylene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.14 J**	< 1.0 U
Anthracene	SW8270C-SIM	ug/L	NE	180	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)anthracene	SW8270C-SIM	ug/L	NE	0.03	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)pyrene	SW8270C-SIM	ug/L	0.2	0.025	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(b)fluoranthene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(g,h,i)perylene	SW8270C-SIM	ug/L	NE	NE	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(k)fluoranthene	SW8270C-SIM	ug/L	NE	2.5	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Chrysene	SW8270C-SIM	ug/L	NE	25	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibenzo(a,h)anthracene	SW8270C-SIM	ug/L	NE	0.025	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Fluoranthene	SW8270C-SIM	ug/L	NE	80	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Fluorene	SW8270C-SIM	ug/L	NE	29	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Indeno(1,2,3-cd)pyrene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Naphthalene	SW8270C-SIM	ug/L	NE	0.12	< 1.0 U	< 1.0 U	< 1.0 U	**0.71 J**	< 1.0 U	**1.6**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Phenanthrene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Pyrene	SW8270C-SIM	ug/L	NE	12	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

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Table 5: Q4 2020 Validated Data for Semivolatile Organic Compounds - PAHs
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				Sample Location	PZ-204A-SS	PZ-204-SS	PZ-205-AS	PZ-205-SS	PZ-206-SS	PZ-207-AS	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SS	PZ-302-AI	PZ-302-AS	PZ-303-AS	PZ-304-AI	PZ-304-AS
				Sample Depth (ft BGS)	79.5 - 89.1	10.95 - 89.35	38.55 - 48.35	88.57 - 98.37	115 - 124.8	34.9 - 39.7	140 - 150	138 - 148	237 - 247	137 - 147	32.6 - 42.4	12.2 - 22	16 - 25.8	39 - 48.8	17.1 - 26.9
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	12-04-2020	12-04-2020	11-11-2020	11-11-2020	11-10-2020	12-01-2020	11-04-2020	11-03-2020	11-03-2020	12-04-2020	12-01-2020	11-30-2020	12-04-2020	12-02-2020	12-02-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**															
Semivolatile Organic Compounds -- PAHs, Total																			
1-Methylnaphthalene	SW8270C-SIM	ug/L	NE	1.1	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	**1.2 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**22.8**	< 1.0 U	< 1.0 U
2-Methylnaphthalene	SW8270C-SIM	ug/L	NE	3.6	< 1.0 U	< 1.0 U	**0.73 J-**	< 1.0 U	< 1.0 U	**1.5**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**25.6**	< 1.0 U	< 1.0 U
Acenaphthene	SW8270C-SIM	ug/L	NE	53	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	**0.38 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acenaphthylene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	**0.63 J-**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.20 J**	< 1.0 U	< 1.0 U
Anthracene	SW8270C-SIM	ug/L	NE	180	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)anthracene	SW8270C-SIM	ug/L	NE	0.03	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)pyrene	SW8270C-SIM	ug/L	0.2	0.025	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(b)fluoranthene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(g,h,i)perylene	SW8270C-SIM	ug/L	NE	NE	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(k)fluoranthene	SW8270C-SIM	ug/L	NE	2.5	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Chrysene	SW8270C-SIM	ug/L	NE	25	< 0.50 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibenzo(a,h)anthracene	SW8270C-SIM	ug/L	NE	0.025	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Fluoranthene	SW8270C-SIM	ug/L	NE	80	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Fluorene	SW8270C-SIM	ug/L	NE	29	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	**0.25 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Indeno(1,2,3-cd)pyrene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Naphthalene	SW8270C-SIM	ug/L	NE	0.12	< 1.0 U	< 1.0 U	**16.0 J-**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.14 J**	**0.27 J**	**17.7**	< 1.0 U	**1.9**
Phenanthrene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	**1.7 J-**	< 1.0 U	< 1.0 U	**0.19 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.1**	< 1.0 U	< 1.0 U
Pyrene	SW8270C-SIM	ug/L	NE	12	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

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Table 5: Q4 2020 Validated Data for Semivolatile Organic Compounds - PAHs
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				Sample Location	S-5	S-5	S-10	S-82	S-84
				Sample Depth (ft BGS)	30 - 40	30 - 40	32 - 52	15.5 - 25.5	20.9 - 30.9
				Sample Type	N	FD	N	N	N
				Sample Date	11-20-2020	11-20-2020	11-13-2020	11-23-2020	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**					
Semivolatile Organic Compounds – PAHs, Total									
1-Methylnaphthalene	SW8270C-SIM	ug/L	NE	1.1	**1.2**	**1.2**	< 1.0 U	**0.11 J**	< 1.0 U
2-Methylnaphthalene	SW8270C-SIM	ug/L	NE	3.6	**1.7**	**1.7**	< 1.0 U	**0.21 J**	< 1.0 U
Acenaphthene	SW8270C-SIM	ug/L	NE	53	**0.11 J**	< 1.0 U	**0.34 J**	**0.089 J**	< 1.0 U
Acenaphthylene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Anthracene	SW8270C-SIM	ug/L	NE	180	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)anthracene	SW8270C-SIM	ug/L	NE	0.03	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(a)pyrene	SW8270C-SIM	ug/L	0.2	0.025	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(b)fluoranthene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(g,h,i)perylene	SW8270C-SIM	ug/L	NE	NE	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Benzo(k)fluoranthene	SW8270C-SIM	ug/L	NE	2.5	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Chrysene	SW8270C-SIM	ug/L	NE	25	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Dibenzo(a,h)anthracene	SW8270C-SIM	ug/L	NE	0.025	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Fluoranthene	SW8270C-SIM	ug/L	NE	80	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Fluorene	SW8270C-SIM	ug/L	NE	29	< 1.0 U	< 1.0 U	**0.15 J**	< 1.0 U	< 1.0 U
Indeno(1,2,3-cd)pyrene	SW8270C-SIM	ug/L	NE	0.25	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Naphthalene	SW8270C-SIM	ug/L	NE	0.12	**3.0**	**3.0**	< 1.0 U	**0.32 J**	< 1.0 U
Phenanthrene	SW8270C-SIM	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Pyrene	SW8270C-SIM	ug/L	NE	12	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

Notes and definitions are presented on Page 7

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

J- = The result is an estimated concentration, but may be biased low.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

Table 6: Q4 2020 Validated Data for Total Petroleum Hydrocarbons and PCBs
West Lake Landfill OU-3
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				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65	I-66	I-67
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36	26.9 - 36.9	25.4 - 35.4
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020	11-05-2020	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**															
Petroleum Hydrocarbons,Total																			
C12-C28-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 909 U	< 900 U
C28-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 909 U	< 900 U
C6-C12-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 909 U	< 900 U
C6-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 909 U	< 900 U
C10-C12-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C10-C12-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C12-C16-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C12-C16-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C16-C21-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C16-C21-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C21-C35-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,040 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,040 U	< 2,000 U	< 2,020 UJ	< 2,000 U
C21-C35-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,040 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,040 U	< 2,000 U	< 2,020 UJ	< 2,000 U
C6-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C6-C8-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C7-C8-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C8-C10-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
C8-C10-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,010 UJ	< 1,000 U
Polychlorinated Biphenyls, Total																			
Aroclor 1016	SW8082A	ug/L	0.5	0.14	< 0.091 U	< 0.091 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.10 U	< 0.091 U
Aroclor 1221	SW8082A	ug/L	0.5	0.0047	< 0.091 U	< 0.091 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.10 U	< 0.091 U
Aroclor 1232	SW8082A	ug/L	0.5	0.0047	< 0.091 U	< 0.091 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.10 U	< 0.091 U
Aroclor 1242	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.091 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.10 U	< 0.091 U
Aroclor 1248	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.091 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.10 U	< 0.091 U
Aroclor 1254	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.091 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.10 U	< 0.091 U
Aroclor 1260	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.091 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.10 U	< 0.091 U
PCBs, Total	SW8082A	ug/L	0.5	0.044	< 0.091 U	< 0.091 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.091 U	< 0.10 U	< 0.091 U

Notes and definitions are presented on Page 7

Table 6: Q4 2020 Validated Data for Total Petroleum Hydrocarbons and PCBs
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	I-68	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS	PZ-102-SS	PZ-103-SS	PZ-103-SS	PZ-104-KS
				Sample Depth (ft BGS)	21.2 - 31.2	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63	79.7 - 89.5	134.7 - 144.5	134.7 - 144.5	397.37 - 407.17
				Sample Type	N	N	N	N	FD	N	N	N	N	N	N	N	FD	N
				Sample Date	11-24-2020	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020	11-06-2020	12-03-2020	12-03-2020	12-03-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Petroleum Hydrocarbons,Total																		
C12-C28-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	**1,890**	< 918 U	< 900 U	< 900 U	< 909 U	< 909 U	< 918 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U
C28-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	< 900 U	< 918 U	< 900 U	< 900 U	< 909 U	< 909 U	< 918 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U
C6-C12-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	**7,470**	< 918 U	< 900 U	< 900 U	< 909 U	< 909 U	< 918 U	< 900 U	< 900 U	< 900 U	**703 J**	**690 J**	< 900 U
C6-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	**9,360**	< 918 U	< 900 U	< 900 U	< 909 U	< 909 U	< 918 U	< 900 U	< 900 U	< 900 U	**703 J**	**690 J**	< 900 U
C10-C12-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C10-C12-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C12-C16-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C12-C16-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	**1,230**	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C16-C21-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C16-C21-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C21-C35-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,000 U	< 2,000 U	< 2,040 U	< 2,000 U	< 2,000 U	< 2,020 UJ	< 2,020 UJ	< 2,040 UJ	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U
C21-C35-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,000 U	< 2,000 U	< 2,040 U	< 2,000 U	**1,120 J**	< 2,020 UJ	< 2,020 UJ	< 2,040 UJ	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U
C6-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C6-C8-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C7-C8-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C8-C10-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C8-C10-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,020 U	< 1,000 U	< 1,000 U	< 1,010 UJ	< 1,010 UJ	< 1,020 UJ	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Polychlorinated Biphenyls, Total																		
Aroclor 1016	SW8082A	ug/L	0.5	0.14	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.11 U
Aroclor 1221	SW8082A	ug/L	0.5	0.0047	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.11 U
Aroclor 1232	SW8082A	ug/L	0.5	0.0047	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.11 U
Aroclor 1242	SW8082A	ug/L	0.5	0.0078	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.11 U
Aroclor 1248	SW8082A	ug/L	0.5	0.0078	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.11 U
Aroclor 1254	SW8082A	ug/L	0.5	0.0078	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.11 U
Aroclor 1260	SW8082A	ug/L	0.5	0.0078	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.11 U
PCBs, Total	SW8082A	ug/L	0.5	0.044	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.11 U

Notes and definitions are presented on Page 7

Table 6: Q4 2020 Validated Data for Total Petroleum Hydrocarbons and PCBs
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				Sample Location	PZ-104-SD	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS	PZ-107-SS	PZ-109-SS	PZ-109-SS	PZ-111-KS	PZ-111-SD	PZ-111-SS
				Sample Depth (ft BGS)	235.2 - 245	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5	357.15 - 366.96	199.4 - 209.2	105.5 - 115.5
				Sample Type	N	N	N	N	N	FD	N	N	N	FD	N	N	N
				Sample Date	11-04-2020	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020	12-03-2020	11-10-2020	11-10-2020	11-09-2020	11-09-2020	11-09-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Petroleum Hydrocarbons,Total																	
C12-C28-Total	TCEQ-TX-1005	ug/L	NE	NE	< 927 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 936 U	< 918 U	< 918 U
C28-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 927 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 936 U	< 918 U	< 918 U
C6-C12-Total	TCEQ-TX-1005	ug/L	NE	NE	< 927 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 936 U	< 918 U	< 918 U
C6-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 927 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 900 U	< 936 U	< 918 U	< 918 U
C10-C12-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C10-C12-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C12-C16-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C12-C16-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C16-C21-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C16-C21-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C21-C35-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,060 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,080 U	< 2,040 U	< 2,040 U
C21-C35-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,060 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,080 U	< 2,040 U	< 2,040 U
C6-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C6-C8-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C7-C8-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C8-C10-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
C8-C10-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,030 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,040 U	< 1,020 U	< 1,020 U
Polychlorinated Biphenyls, Total																	
Aroclor 1016	SW8082A	ug/L	0.5	0.14	< 0.10 U	< 0.091 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.095 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U
Aroclor 1221	SW8082A	ug/L	0.5	0.0047	< 0.10 U	< 0.091 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.095 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U
Aroclor 1232	SW8082A	ug/L	0.5	0.0047	< 0.10 U	< 0.091 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.095 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U
Aroclor 1242	SW8082A	ug/L	0.5	0.0078	< 0.10 U	< 0.091 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.095 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U
Aroclor 1248	SW8082A	ug/L	0.5	0.0078	< 0.10 U	< 0.091 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.095 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U
Aroclor 1254	SW8082A	ug/L	0.5	0.0078	< 0.10 U	< 0.091 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.095 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U
Aroclor 1260	SW8082A	ug/L	0.5	0.0078	< 0.10 U	< 0.091 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.095 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U
PCBs, Total	SW8082A	ug/L	0.5	0.044	< 0.10 U	< 0.091 U	< 0.10 U	< 0.095 U	< 0.095 U	< 0.091 U	< 0.095 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U

Notes and definitions are presented on Page 7

Table 6: Q4 2020 Validated Data for Total Petroleum Hydrocarbons and PCBs
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				Sample Location	PZ-113-AD	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS	PZ-115-SS	PZ-116-SS	PZ-200-SS	PZ-201A-SS	PZ-202-SS	PZ-203-SS	PZ-204A-SS	PZ-204-SS
				Sample Depth (ft BGS)	98.6 - 108.4	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48	74.68 - 84.48	151.4 - 161	9.62 - 97.64	80 - 89.8	40.2 - 89.1	99.6 - 109.4	79.5 - 89.1	10.95 - 89.35
				Sample Type	N	FD	N	N	N	N	FD	N	N	N	N	N	N	N
				Sample Date	11-05-2020	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020	11-24-2020	12-04-2020	12-02-2020	12-04-2020	12-02-2020	11-16-2020	12-04-2020	12-04-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Petroleum Hydrocarbons,Total																		
C12-C28-Total	TCEQ-TX-1005	ug/L	NE	NE	< 918 U	< 900 U	< 909 U	< 909 U	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 909 U	< 909 U	< 900 U	< 900 U
C28-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 918 U	< 900 U	< 909 U	< 909 U	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	< 909 U	< 909 U	< 900 U	< 900 U
C6-C12-Total	TCEQ-TX-1005	ug/L	NE	NE	< 918 U	< 900 U	< 909 U	< 909 U	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	**3,040**	< 909 U	< 900 U	< 900 U
C6-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 918 U	< 900 U	< 909 U	< 909 U	< 900 U	< 900 U	< 900 U	< 900 U	< 918 U	< 900 U	**3,040**	< 909 U	< 900 U	< 900 U
C10-C12-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C10-C12-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C12-C16-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C12-C16-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C16-C21-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C16-C21-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C21-C35-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,040 U	< 2,000 U	< 2,020 U	< 2,020 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,040 UJ	< 2,000 U	< 2,020 UJ	< 2,020 U	< 2,000 U	< 2,000 U
C21-C35-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,040 U	< 2,000 U	< 2,020 U	< 2,020 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U	< 2,040 UJ	< 2,000 U	< 2,020 UJ	< 2,020 U	< 2,000 U	< 2,000 U
C6-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C6-C8-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C7-C8-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C8-C10-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
C8-C10-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,020 U	< 1,000 U	< 1,010 U	< 1,010 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,020 UJ	< 1,000 U	< 1,010 UJ	< 1,010 U	< 1,000 U	< 1,000 U
Polychlorinated Biphenyls, Total																		
Aroclor 1016	SW8082A	ug/L	0.5	0.14	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.10 U	< 0.095 U	< 0.095 U
Aroclor 1221	SW8082A	ug/L	0.5	0.0047	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.10 U	< 0.095 U	< 0.095 U
Aroclor 1232	SW8082A	ug/L	0.5	0.0047	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.10 U	< 0.095 U	< 0.095 U
Aroclor 1242	SW8082A	ug/L	0.5	0.0078	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.10 U	< 0.095 U	< 0.095 U
Aroclor 1248	SW8082A	ug/L	0.5	0.0078	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.10 U	< 0.095 U	< 0.095 U
Aroclor 1254	SW8082A	ug/L	0.5	0.0078	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.10 U	< 0.095 U	< 0.095 U
Aroclor 1260	SW8082A	ug/L	0.5	0.0078	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.10 U	< 0.095 U	< 0.095 U
PCBs, Total	SW8082A	ug/L	0.5	0.044	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.095 U	< 0.091 U	< 0.091 U	< 0.11 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.10 U	< 0.095 U	< 0.095 U

Notes and definitions are presented on Page 7

Table 6: Q4 2020 Validated Data for Total Petroleum Hydrocarbons and PCBs
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				Sample Location	PZ-205-AS	PZ-205-SS	PZ-206-SS	PZ-207-AS	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SD	PZ-211-SS	PZ-302-AI	PZ-302-AS	PZ-303-AS	PZ-304-AI	PZ-304-AS	S-5
				Sample Depth (ft BGS)	38.55 - 48.35	88.57 - 98.37	115 - 124.8	34.9 - 39.7	140 - 150	138 - 148	237 - 247	237 - 247	137 - 147	32.6 - 42.4	12.2 - 22	16 - 25.8	39 - 48.8	17.1 - 26.9	30 - 40
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-11-2020	11-11-2020	11-10-2020	12-01-2020	11-04-2020	11-03-2020	11-03-2020	11-05-2020	12-04-2020	12-01-2020	11-30-2020	12-04-2020	12-02-2020	12-02-2020	11-20-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**															
Petroleum Hydrocarbons,Total																			
C12-C28-Total	TCEQ-TX-1005	ug/L	NE	NE	**1,390**	< 918 U	< 900 U	< 918 U	< 918 U	< 945 U	< 945 U	NA	< 900 U	< 927 U	< 900 U	**12,000**	< 927 U	< 909 U	**770 J**
C28-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	< 918 U	< 900 U	< 918 U	< 918 U	< 945 U	< 945 U	NA	< 900 U	< 927 U	< 900 U	**1,150**	< 927 U	< 909 U	< 900 U
C6-C12-Total	TCEQ-TX-1005	ug/L	NE	NE	**9,660**	< 918 U	< 900 U	< 918 U	< 918 U	< 945 U	< 945 U	NA	< 900 U	< 927 U	< 900 U	**3,540**	< 927 U	< 909 U	< 900 U
C6-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	**11,100**	< 918 U	< 900 U	< 918 U	< 918 U	< 945 U	< 945 U	NA	< 900 U	< 927 U	< 900 U	**16,700**	< 927 U	< 909 U	**770 J**
C10-C12-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C10-C12-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C12-C16-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C12-C16-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C16-C21-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C16-C21-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C21-C35-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,000 U	< 2,040 U	< 2,000 U	< 2,040 UJ	< 2,040 U	< 2,100 U	< 2,100 U	NA	< 2,000 U	< 2,060 UJ	< 2,000 U	< 2,000 U	< 2,060 UJ	< 2,020 UJ	< 2,000 U
C21-C35-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,000 U	< 2,040 U	< 2,000 U	< 2,040 UJ	< 2,040 U	< 2,100 U	< 2,100 U	NA	< 2,000 U	< 2,060 UJ	< 2,000 U	< 2,000 U	< 2,060 UJ	< 2,020 UJ	< 2,000 U
C6-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C6-C8-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C7-C8-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,330 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C8-C10-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
C8-C10-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,020 U	< 1,000 U	< 1,020 UJ	< 1,020 U	< 1,050 U	< 1,050 U	NA	< 1,000 U	< 1,030 UJ	< 1,000 U	< 1,000 U	< 1,030 UJ	< 1,010 UJ	< 1,000 U
Polychlorinated Biphenyls, Total																			
Aroclor 1016	SW8082A	ug/L	0.5	0.14	< 0.091 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U
Aroclor 1221	SW8082A	ug/L	0.5	0.0047	< 0.091 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U
Aroclor 1232	SW8082A	ug/L	0.5	0.0047	< 0.091 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U
Aroclor 1242	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	< 0.091 U
Aroclor 1248	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	**1.4**	< 0.095 U	< 0.095 U	< 0.091 U
Aroclor 1254	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	**0.57**	< 0.095 U	< 0.095 U	< 0.091 U
Aroclor 1260	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	**0.34**	< 0.095 U	< 0.095 U	< 0.091 U
PCBs, Total	SW8082A	ug/L	0.5	0.044	< 0.091 U	< 0.10 U	< 0.10 U	< 0.091 U	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	< 0.091 U	< 0.095 U	**2.3**	< 0.095 U	< 0.095 U	< 0.091 U

Notes and definitions are presented on Page 7

Table 6: Q4 2020 Validated Data for Total Petroleum Hydrocarbons and PCBs
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				Sample Location	S-5	S-10	S-82	S-84
				Sample Depth (ft BGS)	30 - 40	32 - 52	15.5 - 25.5	20.9 - 30.9
				Sample Type	FD	N	N	N
				Sample Date	11-20-2020	11-13-2020	11-23-2020	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**				
Petroleum Hydrocarbons,Total								
C12-C28-Total	TCEQ-TX-1005	ug/L	NE	NE	**691 J**	< 900 U	< 900 U	< 900 U
C28-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	< 900 U	< 900 U	< 900 U
C6-C12-Total	TCEQ-TX-1005	ug/L	NE	NE	< 900 U	< 900 U	< 900 U	< 900 U
C6-C35-Total	TCEQ-TX-1005	ug/L	NE	NE	**691 J**	< 900 U	< 900 U	< 900 U
C10-C12-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C10-C12-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C12-C16-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C12-C16-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C16-C21-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C16-C21-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C21-C35-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U
C21-C35-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 2,000 U	< 2,000 U	< 2,000 U	< 2,000 U
C6-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C6-C8-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C7-C8-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C8-C10-Aliphatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
C8-C10-Aromatics	TCEQ-TX-1006	ug/L	NE	NE	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Polychlorinated Biphenyls, Total								
Aroclor 1016	SW8082A	ug/L	0.5	0.14	< 0.091 U	< 0.095 U	< 0.091 U	< 0.095 U
Aroclor 1221	SW8082A	ug/L	0.5	0.0047	< 0.091 U	< 0.095 U	< 0.091 U	< 0.095 U
Aroclor 1232	SW8082A	ug/L	0.5	0.0047	< 0.091 U	< 0.095 U	< 0.091 U	< 0.095 U
Aroclor 1242	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.095 U	< 0.091 U	< 0.095 U
Aroclor 1248	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.095 U	< 0.091 U	< 0.095 U
Aroclor 1254	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.095 U	< 0.091 U	< 0.095 U
Aroclor 1260	SW8082A	ug/L	0.5	0.0078	< 0.091 U	< 0.095 U	< 0.091 U	< 0.095 U
PCBs, Total	SW8082A	ug/L	0.5	0.044	< 0.091 U	< 0.095 U	< 0.091 U	< 0.095 U

Notes and definitions are presented on Page 7

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

Table 7a: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Volatile Organic Compounds, Total (#–C)																	
1,1,1,2-Tetrachloroethane	SW8260C	ug/L	NE	0.57	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	SW8260C	ug/L	200	800	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	SW8260C	ug/L	NE	0.076	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	SW8260C	ug/L	NE	1,000	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	SW8260C	ug/L	5	0.041	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	SW8260C	ug/L	NE	2.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	SW8260C	ug/L	7	28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	SW8260C	ug/L	NE	0.7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	SW8260C	ug/L	NE	0.00075	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	SW8260C	ug/L	70	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	SW8260C	ug/L	NE	5.6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	SW8011	ug/L	0.2	0.00033	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.037 U	< 0.037 U	< 0.034 U	< 0.035 U	< 0.036 U	< 0.037 U	< 0.037 U	< 0.036 U
1,2-Dichlorobenzene	SW8260C	ug/L	600	30	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	SW8260C	ug/L	5	0.17	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	SW8260C	ug/L	5	0.82	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	SW8260C	ug/L	NE	6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	SW8260C	ug/L	NE	37	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	SW8260C	ug/L	75	0.48	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	SW8260C	ug/L	NE	0.46	< 100 R	< 100 UJ	< 100 UJ	< 100 U	< 100 UJ	< 100 UJ	< 100 R	< 100 UJ	< 100 UJ	< 100 R	< 100 UJ	< 100 UJ	< 100 UJ
2,2-Dichloropropane	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone	SW8260C	ug/L	NE	560	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
2-Hexanone	SW8260C	ug/L	NE	3.8	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
4-Chlorotoluene	SW8260C	ug/L	NE	25	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Isopropyltoluene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-pentanone	SW8260C	ug/L	NE	630	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetone	SW8260C	ug/L	NE	1,400	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetonitrile	SW8260C	ug/L	NE	13	< 100 U	< 100 R	< 100 R	< 100 R	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 R	< 100 U	< 100 U
Acrolein	SW8260C	ug/L	NE	0.0042	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acrylonitrile	SW8260C	ug/L	NE	0.052	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Allyl chloride	SW8260C	ug/L	NE	0.21	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U
Benzene	SW8260C	ug/L	5	0.46	**1.4**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**148**	< 1.0 U	**0.71 J**	< 1.0 U	< 1.0 U	< 1.0 U
beta-Chloroprene	SW8260C	ug/L	NE	0.019	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 U	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromobenzene	SW8260C	ug/L	NE	6.2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	SW8260C	ug/L	80	0.13	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	SW8260C	ug/L	80	3.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	SW8260C	ug/L	NE	0.75	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Carbon disulfide	SW8260C	ug/L	NE	81	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon tetrachloride	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	SW8260C	ug/L	100	7.8	**15.3**	< 1.0 U	< 1.0 U	< 1.0 U	**2.5**	**10.5**	< 1.0 U	**1.2**	< 1.0 U	**5.1**	**2.8**	< 1.0 U	< 1.0 U
Chlorobromomethane	SW8260C	ug/L	NE	8.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	SW8260C	ug/L	NE	2,100	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Chloroform	SW8260C	ug/L	80	0.22	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	SW8260C	ug/L	NE	19	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
cis-1,2-Dichloroethene	SW8260C	ug/L	70	3.6	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.25 J**	< 1.0 U	**0.88 J**	< 1.0 UJ	< 1.0 U	**0.27 J**	< 1.0 U
cis-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	SW8260C	ug/L	NE	1,300	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U

Notes and definitions are presented on Page 8

Table 7a: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
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				Sample Location	I-66	I-67	I-68	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS
				Sample Depth (ft BGS)	26.9 - 36.9	25.4 - 35.4	21.2 - 31.2	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63
				Sample Type	N	N	N	N	N	N	FD	N	N	N	N	N
				Sample Date	11-05-2020	11-10-2020	11-24-2020	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1												
Volatile Organic Compounds, Total (#–C)																
1,1,1,2-Tetrachloroethane	SW8260C	ug/L	NE	0.57	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	SW8260C	ug/L	200	800	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	SW8260C	ug/L	NE	0.076	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	SW8260C	ug/L	NE	1,000	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	SW8260C	ug/L	5	0.041	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	SW8260C	ug/L	NE	2.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	SW8260C	ug/L	7	28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	SW8260C	ug/L	NE	0.7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	SW8260C	ug/L	NE	0.00075	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	SW8260C	ug/L	70	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	SW8260C	ug/L	NE	5.6	< 5.0 U	< 5.0 U	< 5.0 U	**1.3 J**	**0.31 J**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	SW8011	ug/L	0.2	0.00033	< 0.037 U	< 0.036 U	< 0.036 U	< 0.039 U	< 0.035 U	< 0.036 U	< 0.036 U	< 0.036 UJ	< 0.036 U	< 0.037 U	< 0.036 U	< 0.036 U
1,2-Dichlorobenzene	SW8260C	ug/L	600	30	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	SW8260C	ug/L	5	0.17	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	SW8260C	ug/L	5	0.82	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	SW8260C	ug/L	NE	6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**0.097 J**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.18 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	SW8260C	ug/L	NE	37	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	SW8260C	ug/L	75	0.48	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**6.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.45 J**	< 1.0 U
1,4-Dioxane	SW8260C	ug/L	NE	0.46	< 100 UJ	< 100 UJ	< 100 UJ	**2,230 J**	< 100 R	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ
2,2-Dichloropropane	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone	SW8260C	ug/L	NE	560	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
2-Hexanone	SW8260C	ug/L	NE	3.8	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
4-Chlorotoluene	SW8260C	ug/L	NE	25	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Isopropyltoluene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-pentanone	SW8260C	ug/L	NE	630	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetone	SW8260C	ug/L	NE	1,400	< 20.0 U	< 20.0 U	< 20.0 U	**8.7 J**	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetonitrile	SW8260C	ug/L	NE	13	< 100 R	< 100 R	< 100 U	< 100 U	< 100 U	< 100 R	< 100 R	< 100 U	< 100 U	< 100 U	< 100 R	< 100 R
Acrolein	SW8260C	ug/L	NE	0.0042	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acrylonitrile	SW8260C	ug/L	NE	0.052	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Allyl chloride	SW8260C	ug/L	NE	0.21	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ
Benzene	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	**301**	**8.9**	**1.3**	**1.4**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
beta-Chloroprene	SW8260C	ug/L	NE	0.019	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 UJ	< 100 U	< 100 U
Bromobenzene	SW8260C	ug/L	NE	6.2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	SW8260C	ug/L	80	0.13	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	SW8260C	ug/L	80	3.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	SW8260C	ug/L	NE	0.75	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 U
Carbon disulfide	SW8260C	ug/L	NE	81	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon tetrachloride	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	SW8260C	ug/L	100	7.8	< 1.0 U	< 1.0 U	< 1.0 U	**5.8**	**41.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**3.1**	< 1.0 U
Chlorobromomethane	SW8260C	ug/L	NE	8.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	SW8260C	ug/L	NE	2,100	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ
Chloroform	SW8260C	ug/L	80	0.22	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	SW8260C	ug/L	NE	19	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ
cis-1,2-Dichloroethene	SW8260C	ug/L	70	3.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	SW8260C	ug/L	NE	1,300	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**0.92 J**	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U

Notes and definitions are presented on Page 8

Table 7a: Q4 2020 Validated Data for Volatile Organic Compounds
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				Sample Location	PZ-102-SS	PZ-103-SS	PZ-103-SS	PZ-104-KS	PZ-104-SD	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS
				Sample Depth (ft BGS)	79.7 - 89.5	134.7 - 144.5	134.7 - 144.5	397.37 - 407.17	235.2 - 245	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1
				Sample Type	N	N	FD	N	N	N	N	N	N	FD	N
				Sample Date	11-06-2020	12-03-2020	12-03-2020	12-03-2020	11-04-2020	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**											
Volatile Organic Compounds, Total (#–C)															
1,1,1,2-Tetrachloroethane	SW8260C	ug/L	NE	0.57	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	SW8260C	ug/L	200	800	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	SW8260C	ug/L	NE	0.076	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	SW8260C	ug/L	NE	1,000	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	SW8260C	ug/L	5	0.041	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	SW8260C	ug/L	NE	2.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	SW8260C	ug/L	7	28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	SW8260C	ug/L	NE	0.7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	SW8260C	ug/L	NE	0.00075	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	SW8260C	ug/L	70	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	SW8260C	ug/L	NE	5.6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	SW8011	ug/L	0.2	0.00033	< 0.037 U	< 0.034 U	< 0.037 U	< 0.035 U	< 0.037 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.037 U	< 0.036 U
1,2-Dichlorobenzene	SW8260C	ug/L	600	30	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	SW8260C	ug/L	5	0.17	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	SW8260C	ug/L	5	0.82	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	SW8260C	ug/L	NE	6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	SW8260C	ug/L	NE	37	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	SW8260C	ug/L	75	0.48	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.74 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	SW8260C	ug/L	NE	0.46	< 100 UJ	**633**	**637**	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 UJ
2,2-Dichloropropane	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone	SW8260C	ug/L	NE	560	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
2-Hexanone	SW8260C	ug/L	NE	3.8	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
4-Chlorotoluene	SW8260C	ug/L	NE	25	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Isopropyltoluene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-pentanone	SW8260C	ug/L	NE	630	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetone	SW8260C	ug/L	NE	1,400	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetonitrile	SW8260C	ug/L	NE	13	< 100 R	< 100 U	< 100 U	< 100 U	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R
Acrolein	SW8260C	ug/L	NE	0.0042	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acrylonitrile	SW8260C	ug/L	NE	0.052	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Allyl chloride	SW8260C	ug/L	NE	0.21	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ
Benzene	SW8260C	ug/L	5	0.46	< 1.0 U	**44.4**	**42.8**	< 1.0 U	**6.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
beta-Chloroprene	SW8260C	ug/L	NE	0.019	< 100 U	< 100 UJ	< 100 UJ	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromobenzene	SW8260C	ug/L	NE	6.2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	SW8260C	ug/L	80	0.13	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	SW8260C	ug/L	80	3.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	SW8260C	ug/L	NE	0.75	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Carbon disulfide	SW8260C	ug/L	NE	81	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon tetrachloride	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	SW8260C	ug/L	100	7.8	< 1.0 U	**3.8**	**3.8**	< 1.0 U	**0.77 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobromomethane	SW8260C	ug/L	NE	8.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	SW8260C	ug/L	NE	2,100	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Chloroform	SW8260C	ug/L	80	0.22	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	SW8260C	ug/L	NE	19	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U
cis-1,2-Dichloroethene	SW8260C	ug/L	70	3.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	SW8260C	ug/L	NE	1,300	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U

Notes and definitions are presented on Page 8

Table 7a: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
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				Sample Location	PZ-107-SS	PZ-109-SS	PZ-109-SS	PZ-111-KS	PZ-111-SD	PZ-111-SS	PZ-113-AD	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS
				Sample Depth (ft BGS)	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5	357.15 - 366.96	199.4 - 209.2	105.5 - 115.5	98.6 - 108.4	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48
				Sample Type	N	N	FD	N	N	N	N	FD	N	N	N	N
				Sample Date	12-03-2020	11-10-2020	11-10-2020	11-09-2020	11-09-2020	11-09-2020	11-05-2020	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**												
Volatile Organic Compounds, Total (#–C)																
1,1,1,2-Tetrachloroethane	SW8260C	ug/L	NE	0.57	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	SW8260C	ug/L	200	800	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	SW8260C	ug/L	NE	0.076	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	SW8260C	ug/L	NE	1,000	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	SW8260C	ug/L	5	0.041	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	SW8260C	ug/L	NE	2.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	SW8260C	ug/L	7	28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	SW8260C	ug/L	NE	0.7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	SW8260C	ug/L	NE	0.00075	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	SW8260C	ug/L	70	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	SW8260C	ug/L	NE	5.6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	SW8011	ug/L	0.2	0.00033	< 0.035 U	< 0.036 U	< 0.035 U	< 0.035 U	< 0.037 U	< 0.036 U	< 0.037 U	< 0.037 U	< 0.038 U	< 0.037 U	< 0.038 U	< 0.035 U
1,2-Dichlorobenzene	SW8260C	ug/L	600	30	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	SW8260C	ug/L	5	0.17	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	SW8260C	ug/L	5	0.82	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	SW8260C	ug/L	NE	6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	SW8260C	ug/L	NE	37	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	SW8260C	ug/L	75	0.48	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**6.6**	< 1.0 U
1,4-Dioxane	SW8260C	ug/L	NE	0.46	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ
2,2-Dichloropropane	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone	SW8260C	ug/L	NE	560	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
2-Hexanone	SW8260C	ug/L	NE	3.8	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
4-Chlorotoluene	SW8260C	ug/L	NE	25	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Isopropyltoluene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-pentanone	SW8260C	ug/L	NE	630	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetone	SW8260C	ug/L	NE	1,400	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetonitrile	SW8260C	ug/L	NE	13	< 100 U	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R	< 100 R	< 100 U
Acrolein	SW8260C	ug/L	NE	0.0042	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Acrylonitrile	SW8260C	ug/L	NE	0.052	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Allyl chloride	SW8260C	ug/L	NE	0.21	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U
Benzene	SW8260C	ug/L	5	0.46	**2.2**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.94 J**	< 1.0 U
beta-Chloroprene	SW8260C	ug/L	NE	0.019	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromobenzene	SW8260C	ug/L	NE	6.2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	SW8260C	ug/L	80	0.13	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	SW8260C	ug/L	80	3.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	SW8260C	ug/L	NE	0.75	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 UJ
Carbon disulfide	SW8260C	ug/L	NE	81	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon tetrachloride	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	SW8260C	ug/L	100	7.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**4.0**	**3.9**	< 1.0 U	< 1.0 U	**69.3**	< 1.0 U
Chlorobromomethane	SW8260C	ug/L	NE	8.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	SW8260C	ug/L	NE	2,100	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U
Chloroform	SW8260C	ug/L	80	0.22	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	SW8260C	ug/L	NE	19	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U
cis-1,2-Dichloroethene	SW8260C	ug/L	70	3.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	SW8260C	ug/L	NE	1,300	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U

Notes and definitions are presented on Page 8

Table 7a: Q4 2020 Validated Data for Volatile Organic Compounds
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				Sample Location	PZ-115-SS	PZ-116-SS	PZ-200-SS	PZ-201A-SS	PZ-202-SS	PZ-203-SS	PZ-204A-SS	PZ-204-SS	PZ-205-AS	PZ-205-SS	PZ-206-SS	PZ-207-AS
				Sample Depth (ft BGS)	74.68 - 84.48	151.4 - 161	9.62 - 97.64	80 - 89.8	40.2 - 89.1	99.6 - 109.4	79.5 - 89.1	10.95 - 89.35	38.55 - 48.35	88.57 - 98.37	115 - 124.8	34.9 - 39.7
				Sample Type	FD	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-24-2020	12-04-2020	12-02-2020	12-04-2020	12-02-2020	11-16-2020	12-04-2020	12-04-2020	11-11-2020	11-11-2020	11-10-2020	12-01-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1												
Volatile Organic Compounds, Total (#–C)																
1,1,1,2-Tetrachloroethane	SW8260C	ug/L	NE	0.57	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	SW8260C	ug/L	200	800	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	SW8260C	ug/L	NE	0.076	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	SW8260C	ug/L	NE	1,000	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	SW8260C	ug/L	5	0.041	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	SW8260C	ug/L	NE	2.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	SW8260C	ug/L	7	28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	SW8260C	ug/L	NE	0.7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	SW8260C	ug/L	NE	0.00075	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	SW8260C	ug/L	70	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	SW8260C	ug/L	NE	5.6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**11.8 J**	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	SW8011	ug/L	0.2	0.00033	< 0.038 U	< 0.036 U	< 0.034 UJ	< 0.036 U	< 0.035 UJ	< 0.036 U	< 0.035 U	< 0.034 U	< 0.036 U	< 0.037 U	< 0.036 U	< 0.037 U
1,2-Dichlorobenzene	SW8260C	ug/L	600	30	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	SW8260C	ug/L	5	0.17	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	SW8260C	ug/L	5	0.82	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	SW8260C	ug/L	NE	6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 50.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	SW8260C	ug/L	NE	37	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	SW8260C	ug/L	75	0.48	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**10.7**	< 1.0 U	< 1.0 U	**3.9**
1,4-Dioxane	SW8260C	ug/L	NE	0.46	< 100 UJ	< 100 UJ	< 100 U	< 100 R	**293**	< 100 UJ	**233**	**115**	< 1,000 UJ	< 100 UJ	< 100 UJ	< 100 UJ
2,2-Dichloropropane	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone	SW8260C	ug/L	NE	560	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U
2-Hexanone	SW8260C	ug/L	NE	3.8	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U
4-Chlorotoluene	SW8260C	ug/L	NE	25	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Isopropyltoluene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-pentanone	SW8260C	ug/L	NE	630	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetone	SW8260C	ug/L	NE	1,400	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U
Acetonitrile	SW8260C	ug/L	NE	13	< 100 U	< 100 U	< 100 UJ	< 100 U	< 100 UJ	< 100 U	< 100 U	< 100 U	< 1,000 R	< 100 R	< 100 R	< 100 U
Acrolein	SW8260C	ug/L	NE	0.0042	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U
Acrylonitrile	SW8260C	ug/L	NE	0.052	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 U	< 100 U	< 100 U	< 100 U
Allyl chloride	SW8260C	ug/L	NE	0.21	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 200 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ
Benzene	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**319**	< 1.0 U	**2.2**	< 1.0 U	**676**	< 1.0 U	< 1.0 U	**1.3**
beta-Chloroprene	SW8260C	ug/L	NE	0.019	< 100 U	< 100 UJ	< 100 U	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 U	< 100 U	< 100 U	< 100 UJ
Bromobenzene	SW8260C	ug/L	NE	6.2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	SW8260C	ug/L	80	0.13	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	SW8260C	ug/L	80	3.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	SW8260C	ug/L	NE	0.75	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 50.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Carbon disulfide	SW8260C	ug/L	NE	81	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 50.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon tetrachloride	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	SW8260C	ug/L	100	7.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**8.8 J**	< 1.0 U	< 1.0 U	**16.1**
Chlorobromomethane	SW8260C	ug/L	NE	8.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	SW8260C	ug/L	NE	2,100	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 20.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Chloroform	SW8260C	ug/L	80	0.22	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	SW8260C	ug/L	NE	19	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 20.0 U	< 2.0 U	< 2.0 U	< 2.0 U
cis-1,2-Dichloroethene	SW8260C	ug/L	70	3.6	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	SW8260C	ug/L	NE	1,300	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U

Notes and definitions are presented on Page 8

Table 7a: Q4 2020 Validated Data for Volatile Organic Compounds
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				Sample Location	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SS	PZ-302-AI	PZ-302-AS	PZ-303-AS	PZ-304-AI	PZ-304-AS	S-5	S-5	S-10	S-82
				Sample Depth (ft BGS)	140 - 150	138 - 148	237 - 247	137 - 147	32.6 - 42.4	12.2 - 22	16 - 25.8	39 - 48.8	17.1 - 26.9	30 - 40	30 - 40	32 - 52	15.5 - 25.5
				Sample Type	N	N	N	N	N	N	N	N	N	N	FD	N	N
				Sample Date	11-04-2020	11-03-2020	11-03-2020	12-04-2020	12-01-2020	11-30-2020	12-04-2020	12-02-2020	12-02-2020	11-20-2020	11-20-2020	11-13-2020	11-23-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1													
Volatile Organic Compounds, Total (#–C)																	
1,1,1,2-Tetrachloroethane	SW8260C	ug/L	NE	0.57	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1,1-Trichloroethane	SW8260C	ug/L	200	800	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	SW8260C	ug/L	NE	0.076	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	SW8260C	ug/L	NE	1,000	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	SW8260C	ug/L	5	0.041	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	SW8260C	ug/L	NE	2.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	SW8260C	ug/L	7	28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1-Dichloropropene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	SW8260C	ug/L	NE	0.7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichloropropane	SW8260C	ug/L	NE	0.00075	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	SW8260C	ug/L	70	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**5.4**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	SW8260C	ug/L	NE	5.6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**0.31 J**	**139**	< 5.0 U	< 5.0 U	< 25.0 U	< 25.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	SW8011	ug/L	0.2	0.00033	< 0.036 U	< 0.036 U	< 0.037 U	< 0.034 U	< 0.036 U	< 0.036 U	< 0.035 U	< 0.034 UJ	< 0.034 UJ	< 0.037 U	< 0.035 U	< 0.037 U	< 0.036 U
1,2-Dichlorobenzene	SW8260C	ug/L	600	30	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.3**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	SW8260C	ug/L	5	0.17	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	SW8260C	ug/L	5	0.82	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	SW8260C	ug/L	NE	6	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**0.14 J**	**59.4**	< 5.0 U	< 5.0 U	< 25.0 U	< 25.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.7**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,3-Dichloropropane	SW8260C	ug/L	NE	37	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	SW8260C	ug/L	75	0.48	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**8.6**	**0.42 J**	**1.1**	**24.2**	**10.5**	**10.0**	**1.3**	< 1.0 U
1,4-Dioxane	SW8260C	ug/L	NE	0.46	< 100 UJ	< 100 UJ	< 100 UJ	< 100 U	< 100 UJ	< 100 UJ	< 100 U	< 100 UJ	< 100 UJ	< 500 R	< 500 R	< 100 U	< 100 UJ
2,2-Dichloropropane	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
2-Butanone	SW8260C	ug/L	NE	560	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 U	< 20.0 U
2-Hexanone	SW8260C	ug/L	NE	3.8	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 U	< 20.0 U
4-Chlorotoluene	SW8260C	ug/L	NE	25	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
4-Isopropyltoluene	SW8260C	ug/L	NE	NE	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**4.6**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-pentanone	SW8260C	ug/L	NE	630	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 U	< 20.0 U
Acetone	SW8260C	ug/L	NE	1,400	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 U	< 20.0 U
Acetonitrile	SW8260C	ug/L	NE	13	< 100 R	< 100 R	< 100 R	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 UJ	< 500 U	< 500 U	< 100 R	< 100 U
Acrolein	SW8260C	ug/L	NE	0.0042	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 U	< 20.0 U
Acrylonitrile	SW8260C	ug/L	NE	0.052	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 500 U	< 500 U	< 100 U	< 100 U
Allyl chloride	SW8260C	ug/L	NE	0.21	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 100 U	< 100 U	< 20.0 UJ	< 20.0 UJ
Benzene	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**108**	**39.2**	**3.0**	**9.9**	**4.8 J**	**4.6 J**	**0.80 J**	< 1.0 U
beta-Chloroprene	SW8260C	ug/L	NE	0.019	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 UJ	< 100 U	< 100 U	< 100 U	< 500 U	< 500 U	< 100 U	< 100 U
Bromobenzene	SW8260C	ug/L	NE	6.2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	SW8260C	ug/L	80	0.13	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Bromoform	SW8260C	ug/L	80	3.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Bromomethane	SW8260C	ug/L	NE	0.75	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 25.0 UJ	< 25.0 UJ	< 5.0 UJ	< 5.0 UJ
Carbon disulfide	SW8260C	ug/L	NE	81	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U	< 25.0 U	< 5.0 U	< 5.0 U
Carbon tetrachloride	SW8260C	ug/L	5	0.46	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	SW8260C	ug/L	100	7.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**51.9**	< 1.0 U	**4.0**	**179**	**7.3**	**7.4**	**6.1**	**2.2**
Chlorobromomethane	SW8260C	ug/L	NE	8.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Chloroethane	SW8260C	ug/L	NE	2,100	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**3.3**	< 2.0 U	< 10.0 U	< 10.0 U	**13.9**	< 2.0 U
Chloroform	SW8260C	ug/L	80	0.22	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Chloromethane	SW8260C	ug/L	NE	19	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 10.0 U	< 10.0 U	< 2.0 UJ	< 2.0 UJ
cis-1,2-Dichloroethene	SW8260C	ug/L	70	3.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.3**	< 1.0 UJ	**0.16 J**	< 5.0 UJ	< 5.0 UJ	**1.4**	**1.3**
cis-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Cyclohexane	SW8260C	ug/L	NE	1,300	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	**10.8 J**	< 20.0 U	< 20.0 U	< 100 U	< 100 U	**0.44 J**	< 20.0 U

Notes and definitions are presented on Page 8

Table 7a: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	S-84
				Sample Depth (ft BGS)	20.9 - 30.9
				Sample Type	N
				Sample Date	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**	
Volatile Organic Compounds, Total (#–C)					
1,1,1,2-Tetrachloroethane	SW8260C	ug/L	NE	0.57	< 1.0 U
1,1,1-Trichloroethane	SW8260C	ug/L	200	800	< 1.0 U
1,1,2,2-Tetrachloroethane	SW8260C	ug/L	NE	0.076	< 1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	SW8260C	ug/L	NE	1,000	< 1.0 U
1,1,2-Trichloroethane	SW8260C	ug/L	5	0.041	< 1.0 U
1,1-Dichloroethane	SW8260C	ug/L	NE	2.8	< 1.0 U
1,1-Dichloroethene	SW8260C	ug/L	7	28	< 1.0 U
1,1-Dichloropropene	SW8260C	ug/L	NE	NE	< 1.0 U
1,2,3-Trichlorobenzene	SW8260C	ug/L	NE	0.7	< 1.0 U
1,2,3-Trichloropropane	SW8260C	ug/L	NE	0.00075	< 1.0 U
1,2,4-Trichlorobenzene	SW8260C	ug/L	70	0.4	< 1.0 U
1,2,4-Trimethylbenzene	SW8260C	ug/L	NE	5.6	< 5.0 U
1,2-Dibromo-3-chloropropane	SW8011	ug/L	0.2	0.00033	< 0.037 U
1,2-Dichlorobenzene	SW8260C	ug/L	600	30	< 1.0 U
1,2-Dichloroethane	SW8260C	ug/L	5	0.17	< 1.0 U
1,2-Dichloropropane	SW8260C	ug/L	5	0.82	< 1.0 U
1,3,5-Trimethylbenzene	SW8260C	ug/L	NE	6	< 5.0 U
1,3-Dichlorobenzene	SW8260C	ug/L	NE	NE	< 1.0 U
1,3-Dichloropropane	SW8260C	ug/L	NE	37	< 1.0 U
1,4-Dichlorobenzene	SW8260C	ug/L	75	0.48	< 1.0 U
1,4-Dioxane	SW8260C	ug/L	NE	0.46	< 100 UJ
2,2-Dichloropropane	SW8260C	ug/L	NE	NE	< 1.0 U
2-Butanone	SW8260C	ug/L	NE	560	< 20.0 U
2-Hexanone	SW8260C	ug/L	NE	3.8	< 20.0 U
4-Chlorotoluene	SW8260C	ug/L	NE	25	< 1.0 U
4-Isopropyltoluene	SW8260C	ug/L	NE	NE	< 1.0 U
4-Methyl-2-pentanone	SW8260C	ug/L	NE	630	< 20.0 U
Acetone	SW8260C	ug/L	NE	1,400	< 20.0 U
Acetonitrile	SW8260C	ug/L	NE	13	< 100 R
Acrolein	SW8260C	ug/L	NE	0.0042	< 20.0 U
Acrylonitrile	SW8260C	ug/L	NE	0.052	< 100 U
Allyl chloride	SW8260C	ug/L	NE	0.21	< 20.0 UJ
Benzene	SW8260C	ug/L	5	0.46	< 1.0 U
beta-Chloroprene	SW8260C	ug/L	NE	0.019	< 100 U
Bromobenzene	SW8260C	ug/L	NE	6.2	< 1.0 U
Bromodichloromethane	SW8260C	ug/L	80	0.13	< 1.0 U
Bromoform	SW8260C	ug/L	80	3.3	< 1.0 U
Bromomethane	SW8260C	ug/L	NE	0.75	< 5.0 UJ
Carbon disulfide	SW8260C	ug/L	NE	81	< 5.0 U
Carbon tetrachloride	SW8260C	ug/L	5	0.46	< 1.0 U
Chlorobenzene	SW8260C	ug/L	100	7.8	**0.68 J**
Chlorobromomethane	SW8260C	ug/L	NE	8.3	< 1.0 U
Chloroethane	SW8260C	ug/L	NE	2,100	< 2.0 U
Chloroform	SW8260C	ug/L	80	0.22	< 1.0 U
Chloromethane	SW8260C	ug/L	NE	19	< 2.0 U
cis-1,2-Dichloroethene	SW8260C	ug/L	70	3.6	< 1.0 U
cis-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U
Cyclohexane	SW8260C	ug/L	NE	1,300	< 20.0 U

Notes and definitions are presented on Page 8

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

Validated Data for Volatile Organic Compounds have been split into two tables, alphabetically, to aid in readability. Chemical names starting with number 0–9 through letter C are shown on Table 7a; chemical names starting with letter D through Z are shown on Table 7b.

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

R = Rejected, data not usable.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

Table 7b: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	D-3	D-6	D-12	D-13	D-83	D-85	D-87	D-89	D-93	I-9	I-11	I-62	I-65	I-66
				Sample Depth (ft BGS)	96.5 - 106.5	96.5 - 106.5	133.7 - 143.7	123 - 133	77 - 97	62 - 82	91 - 111	33 - 48	92 - 112	43.1 - 53.1	80.5 - 90.5	34 - 44	26 - 36	26.9 - 36.9
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	11-20-2020	11-12-2020	11-12-2020	11-13-2020	11-16-2020	11-30-2020	11-20-2020	12-03-2020	11-23-2020	11-23-2020	11-12-2020	11-16-2020	11-24-2020	11-05-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Volatile Organic Compounds, Total (D–Z)																		
Dibromochloromethane	SW8260C	ug/L	80	0.87	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	SW8260C	ug/L	NE	0.83	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane (Freon 12)	SW8260C	ug/L	NE	20	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U
Ethyl ether	SW8260C	ug/L	NE	390	**13.5 J**	**5.7 J**	**6.1 J**	< 20.0 U	< 20.0 U	< 20.0 U	**5.9 J**	**10.9 J**	**34.3**	**123**	**6.1 J**	< 20.0 U	< 20.0 U	< 20.0 U
Ethyl methacrylate	SW8260C	ug/L	NE	63	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Ethylbenzene	SW8260C	ug/L	700	1.5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.85 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethylene dibromide	SW8011	ug/L	0.05	0.0075	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.037 U	< 0.037 U	< 0.034 U	< 0.035 U	< 0.036 U	< 0.037 U	< 0.037 U	< 0.036 U	< 0.037 U
Hexachlorobutadiene	SW8260C	ug/L	NE	0.14	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isobutyl alcohol	SW8260C	ug/L	NE	590	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 UJ	< 100 U	< 100 UJ	< 100 UJ	< 100 U	< 100 UJ	< 100 U	< 100 U
Isopropylbenzene (Cumene)	SW8260C	ug/L	NE	45	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylenes	SW8260C	ug/L	NE	19	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**0.81 J**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methacrylonitrile	SW8260C	ug/L	NE	0.19	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Methyl acetate	SW8260C	ug/L	NE	2,000	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl iodide	SW8260C	ug/L	NE	NE	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Methyl methacrylate	SW8260C	ug/L	NE	140	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl tert-butyl ether	SW8260C	ug/L	NE	14	**0.31 J**	**9.0**	**1.7 J**	**0.56 J**	< 4.0 U	< 4.0 U	**0.14 J**	**2.5 J**	**0.29 J**	**0.28 J**	**1.5 J**	< 4.0 U	< 4.0 U	< 4.0 U
Methylcyclohexane	SW8260C	ug/L	NE	NE	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 UJ
Methylene chloride	SW8260C	ug/L	5	11	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Butylbenzene	SW8260C	ug/L	NE	100	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Hexane	SW8260C	ug/L	NE	150	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	SW8260C	ug/L	NE	66	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Chlorotoluene (2-chlorotoluene)	SW8260C	ug/L	NE	24	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	SW8260C	ug/L	NE	19	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.51 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Propionitrile	SW8260C	ug/L	NE	NE	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 U	< 100 U
sec-Butylbenzene	SW8260C	ug/L	NE	200	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	SW8260C	ug/L	100	120	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	SW8260C	ug/L	NE	69	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	SW8260C	ug/L	5	4.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	SW8260C	ug/L	1,000	110	**0.15 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**5.1**	< 1.0 U	**0.40 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	SW8260C	ug/L	100	6.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,4-Dichlorobutene	SW8260C	ug/L	NE	0.0013	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Trichloroethene	SW8260C	ug/L	5	0.28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.34 J**	< 1.0 U	< 1.0 U
Trichlorofluoromethane (Freon 11)	SW8260C	ug/L	NE	520	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Vinyl acetate	SW8260C	ug/L	NE	41	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 U
Vinyl chloride	SW8260C	ug/L	2	0.019	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Xylene, Total	SW8260C	ug/L	10,000	19	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	**1.3 J**	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U

Notes and definitions are presented on Page 7

Table 7b: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
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				Sample Location	I-67	I-68	I-73	LR-100	MW-1204	MW-1204	PZ-100-KS	PZ-100-SD	PZ-100-SS	PZ-101-SS	PZ-102R-SS	PZ-102-SS	PZ-103-SS
				Sample Depth (ft BGS)	25.4 - 35.4	21.2 - 31.2	43.2 - 46.2	19.7 - 24.5	213.5 - 223.5	213.5 - 223.5	374 - 383.8	234.8 - 244.6	73.96 - 93.6	129.48 - 139.28	79.83 - 89.63	79.7 - 89.5	134.7 - 144.5
				Sample Type	N	N	N	N	N	FD	N	N	N	N	N	N	N
				Sample Date	11-10-2020	11-24-2020	11-30-2020	12-03-2020	11-06-2020	11-06-2020	12-02-2020	12-01-2020	12-01-2020	11-12-2020	11-06-2020	11-06-2020	12-03-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Volatile Organic Compounds, Total (D–Z)																	
Dibromochloromethane	SW8260C	ug/L	80	0.87	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	SW8260C	ug/L	NE	0.83	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane (Freon 12)	SW8260C	ug/L	NE	20	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U
Ethyl ether	SW8260C	ug/L	NE	390	< 20.0 U	< 20.0 U	**33.4**	**8.5 J**	**1.2 J**	**1.2 J**	< 20.0 U	< 20.0 U	< 20.0 U	**3.0 J**	< 20.0 U	< 20.0 U	**9.3 J**
Ethyl methacrylate	SW8260C	ug/L	NE	63	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Ethylbenzene	SW8260C	ug/L	700	1.5	< 1.0 U	< 1.0 U	**1.0**	**0.13 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.66 J**
Ethylene dibromide	SW8011	ug/L	0.05	0.0075	< 0.036 U	< 0.036 U	< 0.039 U	< 0.035 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.037 U	< 0.034 U
Hexachlorobutadiene	SW8260C	ug/L	NE	0.14	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isobutyl alcohol	SW8260C	ug/L	NE	590	< 100 U	< 100 U	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U
Isopropylbenzene (Cumene)	SW8260C	ug/L	NE	45	< 1.0 U	< 1.0 U	**1.0**	**19.2**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylenes	SW8260C	ug/L	NE	19	< 2.0 U	< 2.0 U	**5.6**	**0.82 J**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**0.48 J**
Methacrylonitrile	SW8260C	ug/L	NE	0.19	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Methyl acetate	SW8260C	ug/L	NE	2,000	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl iodide	SW8260C	ug/L	NE	NE	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Methyl methacrylate	SW8260C	ug/L	NE	140	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl tert-butyl ether	SW8260C	ug/L	NE	14	< 4.0 U	< 4.0 U	**3.6 J**	**0.18 J**	**2.2 J**	**2.3 J**	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	**3.0 J**
Methylcyclohexane	SW8260C	ug/L	NE	NE	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U
Methylene chloride	SW8260C	ug/L	5	11	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Butylbenzene	SW8260C	ug/L	NE	100	< 1.0 U	< 1.0 U	< 1.0 U	**0.80 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Hexane	SW8260C	ug/L	NE	150	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	SW8260C	ug/L	NE	66	< 1.0 U	< 1.0 U	**0.26 J**	**6.5**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Chlorotoluene (2-chlorotoluene)	SW8260C	ug/L	NE	24	< 1.0 U	< 1.0 U	**0.45 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	SW8260C	ug/L	NE	19	< 1.0 U	< 1.0 U	**2.8**	**0.36 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.61 J**
Propionitrile	SW8260C	ug/L	NE	NE	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
sec-Butylbenzene	SW8260C	ug/L	NE	200	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	SW8260C	ug/L	100	120	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	SW8260C	ug/L	NE	69	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	SW8260C	ug/L	5	4.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	SW8260C	ug/L	1,000	110	< 1.0 U	< 1.0 U	**0.81 J**	**0.21 J**	**0.36 J**	**0.40 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.1**
trans-1,2-Dichloroethene	SW8260C	ug/L	100	6.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,4-Dichlorobutene	SW8260C	ug/L	NE	0.0013	< 100 U	< 100 U	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Trichloroethene	SW8260C	ug/L	5	0.28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane (Freon 11)	SW8260C	ug/L	NE	520	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Vinyl acetate	SW8260C	ug/L	NE	41	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ
Vinyl chloride	SW8260C	ug/L	2	0.019	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Xylene, Total	SW8260C	ug/L	10,000	19	< 3.0 U	< 3.0 U	**8.4**	**1.2 J**	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	**1.1 J**

Notes and definitions are presented on Page 7

Table 7b: Q4 2020 Validated Data for Volatile Organic Compounds
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				Sample Location	PZ-103-SS	PZ-104-KS	PZ-104-SD	PZ-104-SS	PZ-105-SS	PZ-106-KS	PZ-106-SD	PZ-106-SD	PZ-106-SS	PZ-107-SS	PZ-109-SS	PZ-109-SS
				Sample Depth (ft BGS)	134.7 - 144.5	397.37 - 407.17	235.2 - 245	134.5 - 144.3	138.5 - 148.3	363.75 - 373.57	190.79 - 200.59	190.79 - 200.59	155.3 - 165.1	92.6 - 102.4	125.7 - 135.5	125.7 - 135.5
				Sample Type	FD	N	N	N	N	N	N	FD	N	N	N	FD
				Sample Date	12-03-2020	12-03-2020	11-04-2020	11-12-2020	11-06-2020	11-13-2020	11-13-2020	11-13-2020	11-11-2020	12-03-2020	11-10-2020	11-10-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**												
Volatile Organic Compounds, Total (D–Z)																
Dibromochloromethane	SW8260C	ug/L	80	0.87	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	SW8260C	ug/L	NE	0.83	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane (Freon 12)	SW8260C	ug/L	NE	20	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U	**29.9**	< 2.0 U	< 2.0 U
Ethyl ether	SW8260C	ug/L	NE	390	**9.3 J**	< 20.0 U	**9.3 J**	< 20.0 U	**3.9 J**	< 20.0 U	< 20.0 U	< 20.0 U	**0.42 J**	**20.0 J**	< 20.0 U	< 20.0 U
Ethyl methacrylate	SW8260C	ug/L	NE	63	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Ethylbenzene	SW8260C	ug/L	700	1.5	**0.72 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethylene dibromide	SW8011	ug/L	0.05	0.0075	< 0.037 U	< 0.035 U	< 0.037 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.037 U	< 0.036 U	< 0.035 U	< 0.036 U	< 0.035 U
Hexachlorobutadiene	SW8260C	ug/L	NE	0.14	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isobutyl alcohol	SW8260C	ug/L	NE	590	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Isopropylbenzene (Cumene)	SW8260C	ug/L	NE	45	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylenes	SW8260C	ug/L	NE	19	**0.50 J**	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U
Methacrylonitrile	SW8260C	ug/L	NE	0.19	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Methyl acetate	SW8260C	ug/L	NE	2,000	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl iodide	SW8260C	ug/L	NE	NE	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Methyl methacrylate	SW8260C	ug/L	NE	140	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl tert-butyl ether	SW8260C	ug/L	NE	14	**2.9 J**	< 4.0 U	**3.2 J**	< 4.0 U	**1.7 J**	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	**0.51 J**	< 4.0 U	< 4.0 U
Methylcyclohexane	SW8260C	ug/L	NE	NE	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 UJ
Methylene chloride	SW8260C	ug/L	5	11	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Butylbenzene	SW8260C	ug/L	NE	100	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Hexane	SW8260C	ug/L	NE	150	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	SW8260C	ug/L	NE	66	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Chlorotoluene (2-chlorotoluene)	SW8260C	ug/L	NE	24	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	SW8260C	ug/L	NE	19	**0.56 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Propionitrile	SW8260C	ug/L	NE	NE	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
sec-Butylbenzene	SW8260C	ug/L	NE	200	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	SW8260C	ug/L	100	120	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	SW8260C	ug/L	NE	69	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	SW8260C	ug/L	5	4.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	SW8260C	ug/L	1,000	110	**1.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	SW8260C	ug/L	100	6.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,4-Dichlorobutene	SW8260C	ug/L	NE	0.0013	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Trichloroethene	SW8260C	ug/L	5	0.28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane (Freon 11)	SW8260C	ug/L	NE	520	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Vinyl acetate	SW8260C	ug/L	NE	41	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U
Vinyl chloride	SW8260C	ug/L	2	0.019	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylene, Total	SW8260C	ug/L	10,000	19	**1.1 J**	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U

Notes and definitions are presented on Page 7

Table 7b: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
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				Sample Location	PZ-111-KS	PZ-111-SD	PZ-111-SS	PZ-113-AD	PZ-113-AD	PZ-113-AS	PZ-113-SS	PZ-114-AS	PZ-115-SS	PZ-115-SS	PZ-116-SS	PZ-200-SS	PZ-201A-SS
				Sample Depth (ft BGS)	357.15 - 366.96	199.4 - 209.2	105.5 - 115.5	98.6 - 108.4	98.6 - 108.4	28.9 - 38.7	148.57 - 158.37	19.9 - 29.7	74.68 - 84.48	74.68 - 84.48	151.4 - 161	9.62 - 97.64	80 - 89.8
				Sample Type	N	N	N	N	FD	N	N	N	N	FD	N	N	N
				Sample Date	11-09-2020	11-09-2020	11-09-2020	11-05-2020	11-05-2020	11-04-2020	11-05-2020	11-11-2020	11-24-2020	11-24-2020	12-04-2020	12-02-2020	12-04-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**													
Volatile Organic Compounds, Total (D–Z)																	
Dibromochloromethane	SW8260C	ug/L	80	0.87	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	SW8260C	ug/L	NE	0.83	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane (Freon 12)	SW8260C	ug/L	NE	20	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Ethyl ether	SW8260C	ug/L	NE	390	< 20.0 U	< 20.0 U	**6.5 J**	**8.6 J**	**8.7 J**	**6.6 J**	< 20.0 U	**0.75 J**	**1.4 J**	**1.5 J**	< 20.0 U	< 20.0 U	< 20.0 U
Ethyl methacrylate	SW8260C	ug/L	NE	63	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Ethylbenzene	SW8260C	ug/L	700	1.5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethylene dibromide	SW8011	ug/L	0.05	0.0075	< 0.035 U	< 0.037 U	< 0.036 U	< 0.037 U	< 0.037 U	< 0.038 U	< 0.037 U	< 0.038 U	< 0.035 U	< 0.038 U	< 0.036 U	< 0.034 U	< 0.036 U
Hexachlorobutadiene	SW8260C	ug/L	NE	0.14	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isobutyl alcohol	SW8260C	ug/L	NE	590	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 UJ	< 100 R
Isopropylbenzene (Cumene)	SW8260C	ug/L	NE	45	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylenes	SW8260C	ug/L	NE	19	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ
Methacrylonitrile	SW8260C	ug/L	NE	0.19	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Methyl acetate	SW8260C	ug/L	NE	2,000	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl iodide	SW8260C	ug/L	NE	NE	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Methyl methacrylate	SW8260C	ug/L	NE	140	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl tert-butyl ether	SW8260C	ug/L	NE	14	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	**2.3 J**	< 4.0 U	< 4.0 U	**0.11 J**	**0.12 J**	< 4.0 U	< 4.0 U	< 4.0 U
Methylcyclohexane	SW8260C	ug/L	NE	NE	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methylene chloride	SW8260C	ug/L	5	11	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Butylbenzene	SW8260C	ug/L	NE	100	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Hexane	SW8260C	ug/L	NE	150	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	SW8260C	ug/L	NE	66	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Chlorotoluene (2-chlorotoluene)	SW8260C	ug/L	NE	24	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	SW8260C	ug/L	NE	19	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Propionitrile	SW8260C	ug/L	NE	NE	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 U
sec-Butylbenzene	SW8260C	ug/L	NE	200	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	SW8260C	ug/L	100	120	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	SW8260C	ug/L	NE	69	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	SW8260C	ug/L	5	4.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	SW8260C	ug/L	1,000	110	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	SW8260C	ug/L	100	6.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,4-Dichlorobutene	SW8260C	ug/L	NE	0.0013	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 UJ	< 100 UJ
Trichloroethene	SW8260C	ug/L	5	0.28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane (Freon 11)	SW8260C	ug/L	NE	520	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Vinyl acetate	SW8260C	ug/L	NE	41	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ
Vinyl chloride	SW8260C	ug/L	2	0.019	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylene, Total	SW8260C	ug/L	10,000	19	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U

Notes and definitions are presented on Page 7

Table 7b: Q4 2020 Validated Data for Volatile Organic Compounds
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				Sample Location	PZ-202-SS	PZ-203-SS	PZ-204A-SS	PZ-204-SS	PZ-205-AS	PZ-205-SS	PZ-206-SS	PZ-207-AS	PZ-209-SS	PZ-210-SS	PZ-211-SD	PZ-211-SS	PZ-302-AI	PZ-302-AS
				Sample Depth (ft BGS)	40.2 - 89.1	99.6 - 109.4	79.5 - 89.1	10.95 - 89.35	38.55 - 48.35	88.57 - 98.37	115 - 124.8	34.9 - 39.7	140 - 150	138 - 148	237 - 247	137 - 147	32.6 - 42.4	12.2 - 22
				Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				Sample Date	12-02-2020	11-16-2020	12-04-2020	12-04-2020	11-11-2020	11-11-2020	11-10-2020	12-01-2020	11-04-2020	11-03-2020	11-03-2020	12-04-2020	12-01-2020	11-30-2020
Analyte	**Analytic Method**	**Unit**	**USEPA Primary MCL**	**USEPA RSL TAPWATER THQ0.1**														
Volatile Organic Compounds, Total (D–Z)																		
Dibromochloromethane	SW8260C	ug/L	80	0.87	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	SW8260C	ug/L	NE	0.83	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane (Freon 12)	SW8260C	ug/L	NE	20	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 20.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**0.63 J**
Ethyl ether	SW8260C	ug/L	NE	390	**52.7**	**0.20 J**	**1.3 J**	< 20.0 U	**65.6 J**	< 20.0 U	**0.53 J**	**18.6 J**	< 20.0 U	**1.9 J**	**0.32 J**	< 20.0 U	**10.7 J**	**7.4 J**
Ethyl methacrylate	SW8260C	ug/L	NE	63	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Ethylbenzene	SW8260C	ug/L	700	1.5	**0.39 J**	< 1.0 U	< 1.0 U	< 1.0 U	**17.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethylene dibromide	SW8011	ug/L	0.05	0.0075	< 0.035 U	< 0.036 U	< 0.035 U	< 0.034 U	< 0.036 U	< 0.037 U	< 0.036 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.037 U	< 0.034 U	< 0.036 U	< 0.036 U
Hexachlorobutadiene	SW8260C	ug/L	NE	0.14	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isobutyl alcohol	SW8260C	ug/L	NE	590	< 100 UJ	< 100 UJ	< 100 U	< 100 U	< 1,000 U	< 100 U	< 100 U	< 100 UJ	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ	< 100 UJ
Isopropylbenzene (Cumene)	SW8260C	ug/L	NE	45	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**5.9 J**	< 1.0 U	< 1.0 U	**5.9**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**3.8**
m,p-Xylenes	SW8260C	ug/L	NE	19	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**28.9**	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**0.39 J**
Methacrylonitrile	SW8260C	ug/L	NE	0.19	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Methyl acetate	SW8260C	ug/L	NE	2,000	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl iodide	SW8260C	ug/L	NE	NE	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 50.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Methyl methacrylate	SW8260C	ug/L	NE	140	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl tert-butyl ether	SW8260C	ug/L	NE	14	**8.2**	< 4.0 U	**0.26 J**	< 4.0 U	**10.8 J**	< 4.0 U	< 4.0 U	**0.51 J**	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	**0.11 J**
Methylcyclohexane	SW8260C	ug/L	NE	NE	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 200 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U
Methylene chloride	SW8260C	ug/L	5	11	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 50.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Butylbenzene	SW8260C	ug/L	NE	100	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Hexane	SW8260C	ug/L	NE	150	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 50.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	SW8260C	ug/L	NE	66	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.89 J**
o-Chlorotoluene (2-chlorotoluene)	SW8260C	ug/L	NE	24	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	SW8260C	ug/L	NE	19	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**17.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.43 J**
Propionitrile	SW8260C	ug/L	NE	NE	< 100 UJ	< 100 UJ	< 100 U	< 100 U	< 1,000 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
sec-Butylbenzene	SW8260C	ug/L	NE	200	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	**1.2**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	SW8260C	ug/L	100	120	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	SW8260C	ug/L	NE	69	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	SW8260C	ug/L	5	4.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	SW8260C	ug/L	1,000	110	**8.4**	< 1.0 U	< 1.0 U	< 1.0 U	**17.5**	< 1.0 U	< 1.0 U	**0.42 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.29 J**
trans-1,2-Dichloroethene	SW8260C	ug/L	100	6.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,4-Dichlorobutene	SW8260C	ug/L	NE	0.0013	< 100 UJ	< 100 U	< 100 U	< 100 U	< 1,000 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 UJ
Trichloroethene	SW8260C	ug/L	5	0.28	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane (Freon 11)	SW8260C	ug/L	NE	520	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 20.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U
Vinyl acetate	SW8260C	ug/L	NE	41	< 20.0 UJ	< 20.0 UJ	< 20.0 U	< 20.0 U	< 200 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 U	< 20.0 UJ	< 20.0 UJ
Vinyl chloride	SW8260C	ug/L	2	0.019	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylene, Total	SW8260C	ug/L	10,000	19	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	**46.1**	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	**0.82 J**

Notes and definitions are presented on Page 7

Table 7b: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

				Sample Location	PZ-303-AS	PZ-304-AI	PZ-304-AS	S-5	S-5	S-10	S-82	S-84
				Sample Depth (ft BGS)	16 - 25.8	39 - 48.8	17.1 - 26.9	30 - 40	30 - 40	32 - 52	15.5 - 25.5	20.9 - 30.9
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	12-04-2020	12-02-2020	12-02-2020	11-20-2020	11-20-2020	11-13-2020	11-23-2020	11-10-2020
Analyte	Analytic Method	Unit	USEPA Primary MCL	USEPA RSL TAPWATER THQ0.1								
Volatile Organic Compounds, Total (D–Z)												
Dibromochloromethane	SW8260C	ug/L	80	0.87	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromomethane	SW8260C	ug/L	NE	0.83	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane (Freon 12)	SW8260C	ug/L	NE	20	< 2.0 U	< 2.0 U	**3.2**	< 10.0 U	< 10.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U
Ethyl ether	SW8260C	ug/L	NE	390	**23.4**	**7.3 J**	**11.3 J**	**18.0 J**	**19.3 J**	**12.3 J**	**16.7 J**	**0.45 J**
Ethyl methacrylate	SW8260C	ug/L	NE	63	< 20.0 U	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 U	< 20.0 U	< 20.0 U
Ethylbenzene	SW8260C	ug/L	700	1.5	**7.1**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethylene dibromide	SW8011	ug/L	0.05	0.0075	< 0.035 U	< 0.034 U	< 0.034 U	< 0.037 U	< 0.035 U	< 0.037 U	< 0.036 U	< 0.037 U
Hexachlorobutadiene	SW8260C	ug/L	NE	0.14	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isobutyl alcohol	SW8260C	ug/L	NE	590	< 100 U	< 100 UJ	< 100 UJ	< 500 UJ	< 500 UJ	< 100 U	< 100 UJ	< 100 U
Isopropylbenzene (Cumene)	SW8260C	ug/L	NE	45	**2.9**	< 1.0 U	**1.3**	**4.3 J**	**4.4 J**	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylenes	SW8260C	ug/L	NE	19	**154**	< 2.0 U	< 2.0 U	< 10.0 U	< 10.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methacrylonitrile	SW8260C	ug/L	NE	0.19	< 100 U	< 100 U	< 100 U	< 500 U	< 500 U	< 100 U	< 100 U	< 100 U
Methyl acetate	SW8260C	ug/L	NE	2,000	< 20.0 U	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl iodide	SW8260C	ug/L	NE	NE	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 25.0 UJ	< 25.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Methyl methacrylate	SW8260C	ug/L	NE	140	< 20.0 U	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 U	< 20.0 U	< 20.0 U
Methyl tert-butyl ether	SW8260C	ug/L	NE	14	**0.42 J**	< 4.0 U	**0.25 J**	**0.50 J**	**0.56 J**	**1.1 J**	< 4.0 U	< 4.0 U
Methylcyclohexane	SW8260C	ug/L	NE	NE	**4.1 J**	< 20.0 U	< 20.0 U	< 100 U	< 100 U	< 20.0 UJ	< 20.0 U	< 20.0 UJ
Methylene chloride	SW8260C	ug/L	5	11	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U	< 25.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Butylbenzene	SW8260C	ug/L	NE	100	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Hexane	SW8260C	ug/L	NE	150	**1.1 J**	< 5.0 U	< 5.0 U	< 25.0 U	< 25.0 U	< 5.0 U	< 5.0 U	< 5.0 U
n-Propylbenzene	SW8260C	ug/L	NE	66	**4.2**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Chlorotoluene (2-chlorotoluene)	SW8260C	ug/L	NE	24	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	SW8260C	ug/L	NE	19	**51.7**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Propionitrile	SW8260C	ug/L	NE	NE	< 100 U	< 100 UJ	< 100 UJ	< 500 U	< 500 U	< 100 U	< 100 U	< 100 U
sec-Butylbenzene	SW8260C	ug/L	NE	200	**1.3**	< 1.0 U	**1.8**	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	SW8260C	ug/L	100	120	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
tert-Butylbenzene	SW8260C	ug/L	NE	69	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	SW8260C	ug/L	5	4.1	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	SW8260C	ug/L	1,000	110	**8.9**	**0.21 J**	**0.34 J**	**1.7 J**	**1.5 J**	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	SW8260C	ug/L	100	6.8	**0.51 J**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	SW8260C	ug/L	NE	0.47	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,4-Dichlorobutene	SW8260C	ug/L	NE	0.0013	< 100 U	< 100 UJ	< 100 UJ	< 500 U	< 500 U	< 100 U	< 100 U	< 100 U
Trichloroethene	SW8260C	ug/L	5	0.28	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane (Freon 11)	SW8260C	ug/L	NE	520	< 2.0 U	< 2.0 U	< 2.0 U	< 10.0 U	< 10.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Vinyl acetate	SW8260C	ug/L	NE	41	< 20.0 U	< 20.0 UJ	< 20.0 UJ	< 100 UJ	< 100 UJ	< 20.0 UJ	< 20.0 UJ	< 20.0 U
Vinyl chloride	SW8260C	ug/L	2	0.019	**2.5**	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Xylene, Total	SW8260C	ug/L	10,000	19	**206**	< 3.0 U	< 3.0 U	< 15.0 U	< 15.0 U	< 3.0 U	< 3.0 U	< 3.0 U

Notes and definitions are presented on Page 7

Notes: Q4 2020 Validated Data for Volatile Organic Compounds
West Lake Landfill OU-3
2020 Annual Hydrogeologic and Site Characterization Report

Notes:

ft BGS = feet below ground surface

ug/L = micrograms per liter

mg/L = milligrams per liter

USEPA RSL TAPWATER THQ0.1 = RSL TAPWATER (TR=1E-06, THQ=0.1), May 2021

Bold = Detected

Blue Font = Exceeds USEPA Primary MCL

Orange Shaded = Exceeds USEPA RSL TAPWATER THQ0.1

NE = Not Established

NA = Not Available

Validated Data for Volatile Organic Compounds have been split into two tables, alphabetically, to aid in readability. Chemical names starting with number 0–9 through letter C are shown on Table 7a; chemical names starting with letter D through Z are shown on Table 7b.

For the 2020 4th quarter groundwater monitoring event, turbidity for samples PZ-205-AS-WG-20201111, PZ-205-SS-WG-20201111, I-11-WG-20201112, D-12-WG-20201112, D-6-WG-20201112, S-10-WG-20201113, D-13-WG-20201113, I-62-WG-20201116, D-83-WG-20201116, S-5-WG-20201120, D-3-WG-20201120, D-87-WG-20201120, S-82-WG-20201123, D-93-WG-20201123, I-9-WG-20201123, I-65-WG-20201124, PZ-115-SS-WG-20201124, I-68-WG-20201124, D-85-WG-20201130, I-73-WG-20201130, PZ-302-AS-WG-20201130, PZ-302-AI-WG-20201201, PZ-207-AS-WG-20201201, PZ-202-SS-WG-20201202, PZ-304-AS-WG-20201202, PZ-304-AI-WG-20201202, LR-100-WG-20201203, PZ-107-SS-WG-20201203, PZ-103-SS-WG-20201203, PZ-303-AS-WG-20201204, PZ-201A-SS-WG-20201204, PZ-204A-SS-WG-20201204, and PZ-204-SS-WG-20201204 were analyzed using an instrument with a tungsten filament light source. Turbidity measured using this method is typically reported in NTU.

Qualifier Definition

J = Estimated concentration.

R = Rejected, data not usable.

U = The analyte was analyzed for but was not detected at or above the referenced reporting limit.

UJ = The analyte was analyzed for, but was not detected. The reporting limit is approximate and may be inaccurate or imprecise.

APPENDIX A Q4 2020 DATA VALIDATION REPORTS

ERM

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Memorandum

To	Alice Sandzen
From	Rachel James
Date	2021-08-23
Reference	0579381
Subject	Revised Data Review of West Lake OU-3 RI/FS Routine Groundwater Samples Collected 11/20/2020: Pace Data Package 50273972.

This memorandum was revised to address changes to total xylene method blank contamination issued by the laboratory after the first revision was complete. Table 7 has been revised as needed.

This memorandum was previously revised to address changes to the initial calibration verification data for Gas Chromatography/Mass Spectrometry methods issued by the laboratory after the initial validation was complete. Table 6 has been revised as needed.

The data quality was assessed and any necessary qualifiers were applied following the Quality Assurance Project Plan (QAPP) for West Lake OU-3 Remediation Investigation/Feasibility Study, Revision 3, December 2020, USEPA Contract Laboratory Program (CLP) NFGs for Organic Superfund Methods Data Review, document number EPA-540-R-2017-002, January 2017, USEPA CLP NFGs for Inorganic Superfund Methods Data Review, document number EPA-540-R-2017-001, January 2017, and USEPA Region 1—New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures, EQADR-Supplement1, June 2018, the protocols and quality control (QC) requirements of the analytical methods, and the reviewer's professional judgement.

A Stage 2B data validation was performed on 100% of the laboratory data.

The following items were reviewed as part of the data validation:

- **Chain of Custody:** The chains of custody were reviewed for proper completion and that the laboratory performed the requested methods and reported the requested target analytes for each sample.
- **Dilutions and Reanalysis:** Dilutions, calibration ranges, and reanalyses were reviewed as applicable. The best result was chosen when more than one result was reported as final.
- **Sample Preservation:** The appropriate temperature and chemical preservation requirements were reviewed. Headspace for volatile sample analysis was reviewed.
- **Holding Times:** The period of time between collection of the sample and preparation/analysis of the sample was evaluated.
- **Instrument Tuning:** Instrument tuning and performance check frequency and results were reviewed.

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- **Calibration:** The initial calibration type, fit, number of standards, and minimum response factors were evaluated. Additionally, the frequency and percent recoveries for initial and continuing calibration verification standards and blanks were evaluated.
- **Laboratory Blank Samples:** The preparation and analysis of reagent (contaminant-free) water was evaluated, along with the required frequency.
- **Field Blank Samples:** The collection and analysis of field blanks was evaluated. The reviewed data package(s) included the following associated field blanks: trip, filter, and equipment
- **Spike Samples:** Laboratory control, matrix spike, and post digestion spike sample preparation frequency and recoveries were reviewed as applicable.
- **Serial Dilutions:** Serial dilution sample preparation frequency and recoveries were reviewed as applicable.
- **Surrogate Spikes:** The addition of appropriate surrogates and their recoveries were evaluated.
- **Internal standards:** The presence and recoveries of internal standards and their appropriate association to target analytes were reviewed.
- **Laboratory Duplicate Samples:** Laboratory duplicate frequencies and recoveries were reviewed as applicable.
- **Field Duplicate Samples:** Field duplicate recoveries and absolute differences were reviewed as applicable.
- **Column Agreement:** Column agreements were reviewed for relevant methods.

Findings of the data validation are summarized in the sections below. As necessary, the following data quality flags were applied during validation.

J = estimated concentration
J+ = the result is an estimated concentration, but may be biased high
J- = the result is an estimated concentration, but may be biased low
UJ = estimated reporting limit
U = evaluated to be non-detected at the reporting limit
R = rejected, data not usable
NJ = tentative identification and estimated concentration

Validation outliers and any necessary data qualifications are summarized in outlier tables at the end of this memo. The table below indicates the included validation tables with findings. Tables without findings have been omitted.

Table Number	Table Name	Included
Table 1	Samples with Non-Preferred Results	No
Table 2	Samples with Exceeded Preservation Requirements	No
Table 3	**Samples with Exceeded Holding Times**	**Yes**
Table 4	Instrument Tuning Outside of Acceptable Limits	No
Table 5	**Initial Calibration Outside of Acceptable Limits**	**Yes**
Table 6	**Calibration Verification Outside of Acceptable Limits**	**Yes**
Table 7	**Laboratory Blank and Associated Suspect Sample Detections**	**Yes**
Table 8	**Field Blank and Associated Suspect Sample Detections**	**Yes**

Table Number	Table Name	Included
Table 9	**Spike Recoveries Outside of Acceptable Limits**	**Yes**
Table 10	Serial Dilution Recoveries Outside of Acceptable Limits	No
Table 11	Surrogate Recovery Results out of Acceptable Limits	No
Table 12	Internal Standard Recovery Results out of Acceptable Limits	No
Table 13	**Laboratory Duplicate Result Outliers**	**Yes**
Table 14	Field Duplicate Result Outliers	No
Table 15	Column Agreement Outliers	No
Table 16	Calibration Range Exceedances	No
Table 17	Professional Judgement Qualifiers	No

Findings of the data validation are summarized in the sections below.

CASE NARRATIVE NOTES AND CHAIN-OF-CUSTODY DISCREPANCIES

The laboratory indicated that it does not hold NELAC/TNI accreditation for the methods and parameters in non-potable water listed below. No qualifiers were applied based on accreditation status. Supporting calibrations and quality control data was provided for these analytes and reviewed as part of the data validation.

Method	Analyte without NELAC/TNI Accreditation	
	CAS	Analyte Name
EPA SW 6020	7440-29-1	Thorium
	7440-61-1	Uranium
EPA SW 6010	7440-21-3	Silicon
EPA SW 8082	1336-36-3	Total PCBs
EPA SW 8270	92-52-4	Biphenyl
	99-35-4	1,3,5-Trinitrobenzene
	1912-24-9	Atrazine
	106-50-3	p-Phenylenediamine
	105-60-2	Caprolactam
	95-53-4	o-Toluidine
	100-52-7	Benzaldehyde
EPA SW 8260	110-82-7	Cyclohexane
	108-87-2	Methylcyclohexane
	78-83-1	Isobutyl alcohol
	79-20-9	Methyl acetate
	126-99-8	beta-Chloroprene
EPA SW 9056	20461-54-5	Iodide

No discrepancies between the chains-of-custody and the sample containers received were noted by the laboratory.

PRESERVATION AND HOLDING TIME EVALUATION

The laboratory received the sample shipments within the method-prescribed temperature preservation requirements of less than 6 degrees Celsius, with acceptable sample pH values, and all vials for volatile analysis were received in good condition with headspace of less than 6 millimeters.

The samples were prepared and analyzed within the method-prescribed time period from the date of collection, with the exceptions and any necessary qualifications noted in Table 3.

Situations that required additional professional judgement related to holding times and/or sample preservation are detailed below:

- The laboratory qualified the nitrite as N result for the blind field duplicate sample DUP-005-WG-20201120 as out of holding time; however, the laboratory used the documented false sample collection time of 00:05 to calculate the time elapsed. Considering the true sampling time of the blind field duplicate (9:23 am on 11/20/2020) the field duplicate sample was analyzed within the 48 hour holding time. No validation qualifiers were applied.

INSTRUMENT TUNING EVALUATION

All tuning criteria met method acceptance criteria.

INITIAL CALIBRATION

The initial calibrations met the minimum number of calibration standards, project required percent standard deviation (%RSD), relative correlation coefficient, and minimum relative response factor (RRF) limits (as applicable to the methods) for target analytes, with the exceptions and any necessary qualifications noted in Table 5.

INITIAL CALIBRATION VERIFICATION (ICV) AND CONTINUING CALIBRATION VERIFICATION (CCV) EVALUATION

The initial and continuing calibration verifications were within project-specified percent difference (%D) or percent recoveries (%R) and RRF limits (as applicable to the methods) for target analytes, with the exceptions and any necessary qualifications noted in Table 6.

Situations that required additional professional judgement are detailed below:

- SVOC analytes acetophenone, atrazine, benzaldehyde, biphenyl (diphenyl), caprolactam, N-nitrosodiphenylamine, and 1,2,4,5-tetrachlorobenzene were not reported in the ICV samples. These analytes were present in the initial calibrations and CCV samples and were within control limits. The non-detected results in associated samples have been qualified UJ.

LABORATORY BLANK EVALUATION

The laboratory blank sample results were non-detected for each of the target analytes, with the exceptions and any necessary qualifications noted in Table 7. The blank results indicate that contaminants may have been introduced to the samples during processing or analysis in the laboratory.

FIELD BLANK EVALUATION

The trip, filter, and equipment blank sample results were non-detected for each of the target analytes, with the exceptions and any necessary qualifications noted in Table 8. Any field blank detections associated with laboratory blank contamination and qualified as non-detected (U) are not included in Table 8. The blank results indicate that contaminants may have been introduced to the samples during collection, shipment, handling, and storage.

BLANK AND MATRIX SPIKE EVALUATION

The laboratory control sample (LCS), laboratory control sample duplicate (LCSD) recoveries, and relative percent differences (RPDs) were within the laboratory's limits of acceptance, with the exceptions and any necessary qualifications noted in Table 9. Data were not qualified if a high recovery was associated with a non-detected result.

The matrix spike (MS), matrix spike duplicate (MSD) recoveries, and RPDs were within the laboratory's limits of acceptance for target analytes for spiked project samples, with the exceptions and any necessary qualifications noted in Table 9. MS/MSDs performed on non-project samples were not reviewed. Data were not qualified if the analyte concentration in the parent sample was greater than four times the spike amount, if the spike amount was diluted out prior to analysis, or if a high recovery was associated with a non-detected result.

SERIAL DILUTION EVALUATION

Where performed on project samples, the metals serial dilution percent differences were within laboratory limits of acceptance. Serial dilutions performed on non-project samples were not reviewed.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within the laboratory limits of acceptance. The acceptable surrogate recoveries indicate minimal matrix interference in the samples.

INTERNAL STANDARD EVALUATION

The internal standard responses for reported results were within acceptable limits. The acceptable internal standard responses indicate that the instrument sensitivity and response were stable during each analysis.

LABORATORY DUPLICATE EVALUATION

The laboratory prepared at least one project sample as a laboratory duplicate. Laboratory duplicates performed on non-project samples were not reviewed. The RPDs between the primary sample and the duplicate were within laboratory control limits, with the exceptions and any necessary qualifications noted in Table 13. Results were not qualified if the results in the primary and/or duplicate sample were less than five times the reporting limit.

FIELD DUPLICATE EVALUATION

One field sample was submitted to the laboratory as a blind duplicate. RPDs and absolute differences were calculated as appropriate and compared to the limits established in the QAPP. The QAPP states that the RPDs must be less than or equal to 30 percent for aqueous samples

when analytes are detected in both samples and these results are greater than or equal to five times the reporting limit. If one or both results are less than five times the reporting limit, or one result is detected and one is non-detected, the absolute difference between the results must be less than two times the reporting limit (if the reporting limits are not the same between the parent and field duplicate samples, the lower of the two was used for the control limit determination). The reporting limit was used for non-detected analytes when calculating absolute difference.

All RPDs and/or absolute differences were within QAPP criteria.

COLUMN AGREEMENT EVALUATION

Column agreements met method criteria for dual column analysis.

CALIBRATION RANGE EVALUATION

All results were reported within each instrument's calibration range.

SENSITIVITY

The sample results were reported to the method detection limit. Results between the method detection limit and the reporting limit were flagged as estimated (J) by the laboratory. A number of sample analyses were performed at a dilution factor, resulting in non-detected results reported at elevated reporting limits due to the presence of high levels of non-target analytes or other matrix interference.

COMPLETENESS

The complete data package consisted of 1272 reportable data points excluding field blank samples. 4 data points were rejected. The data completeness measure for this data package is calculated to be 99.7%. The project laboratory completeness goal of 95% was met.

OVERALL ASSESSMENT

All qualified data, excluding rejected data, can be used for decision-making purposes; however, the limitation identified by the applied qualifier should be considered when using the data. The quality of the data generated during this investigation is acceptable for the preparation of technically defensible documents.

Table 3
Samples with Exceeded Holding Times
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Sample ID	Method	Extraction Holding Time	Total Time	Analysis Holding Time	Total Time	Affected Analyte	ERM Qualifier
50273972	D-3-WG-20201120	SM4500-H-B	--	--	15 min.	7341 min.	pH	J
50273972	D-87-WG-20201120	SM4500-H-B	--	--	15 min.	7187 min.	pH	J
50273972	DUP-005-WG-20201120	SM4500-H-B	--	--	15 min.	8025 min.	pH	J
50273972	S-5-WG-20201120	SM4500-H-B	--	--	15 min.	7464 min.	pH	J

Notes:
min. = minutes

Table 5
Initial Calibration Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	IC Sample ID	Analyte	IC RSD (%)	IC RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	8260 Instrument 50MV2A 11/17/2020	cis-1,2-Dichloroethene	37	--	20				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	0.25	ug/L	J
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972						TB-013-WQ-20201120	ND	ug/L	UJ
50273972	8260 Instrument 50MV2A 11/17/2020	1,4-Dioxane	97	--	20				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972						TB-013-WQ-20201120	ND	ug/L	UJ
50273972	8260 Instrument 50MV2A 11/17/2020	Iodomethane	38	--	20				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972						TB-013-WQ-20201120	ND	ug/L	UJ

Table 5
Initial Calibration Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	IC Sample ID	Analyte	IC RSD (%)	IC RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	8270 Instrument 50MSS6 10/07/2020	Famphur	34	--	20				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	8270 Instrument 50MSS6 10/07/2020	Hexachlorophene	25	--	20				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	8270 Instrument 50MSS6 10/07/2020	Kepone	26	--	20				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ

Table 5
Initial Calibration Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	IC Sample ID	Analyte	IC RSD (%)	IC RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	8270 Instrument 50MSS6 10/07/2020	3,3'-Dimethylbenzidine	21	--	20				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ

Notes:
IC = Initial calibration
RSD = Relative standard deviation
RRF = Relative response factor

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	18159139ICV	Bromomethane	152 %R	--	70-130				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972						TB-013-WQ-20201120	ND	ug/L	UJ
50273972	18159139ICV	Iodomethane	143 %R	--	75-125				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972						TB-013-WQ-20201120	ND	ug/L	UJ
50273972	18159139ICV	Vinyl acetate	60 %R	--	75-125				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972						TB-013-WQ-20201120	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	17873843ICV	p-Phenylenediamine	139 %R	--	75-125				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	17873843ICV	1,3,5-Trinitrobenzene	128 %R	--	75-125				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	17873843ICV	P-Dimethylaminoazobenzene	128 %R	--	75-125				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	17873843ICV	3,3'-Dimethylbenzidine	135 %R	--	75-125				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	17873843ICV	Famphur	161 %R	--	75-125				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	Not present in ICV	Acetophenone	--	--	--				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	Not present in ICV	Atrazine	--	--	--				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	Not present in ICV	Benzaldehyde	--	--	--				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	Not present in ICV	Biphenyl (Diphenyl)	--	--	--				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	Not present in ICV	Caprolactam	--	--	--				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	Not present in ICV	N-Nitrosodiphenylamine	--	--	--				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	Not present in ICV	1,2,4,5-Tetrachlorobenzene	--	--	--				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	18198841CCV	cis-1,2-Dichloroethene	-21 %D	--	± 20				
50273972						D-87-WG-20201120	0.25	ug/L	J
50273972						EB-004-WQ-20201120	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	18198841CCV	1,4-Dioxane	-76 %D	--	± 25				
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972	18198841CCV	Isobutanol	-32 %D	--	± 25				
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972	18216832CCV	cis-1,2-Dichloroethene	-23 %D	--	± 20				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	18216832CCV	1,4-Dioxane	-66 %D	--	± 25				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	18216832CCV	Iodomethane	-31 %D	--	± 25				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	18216832CCV	Isobutanol	-30 %D	--	± 25				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	18216839CCV	cis-1,2-Dichloroethene	-23 %D	--	± 20				
50273972						TB-013-WQ-20201120	ND	ug/L	UJ
50273972	18216839CCV	1,4-Dioxane	-94 %D	--	± 25				
50273972						TB-013-WQ-20201120	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50273972	18216839CCV	Iodomethane	-33 %D	--	± 25				
50273972						TB-013-WQ-20201120	ND	ug/L	UJ
50273972	18216839CCV	Isobutanol	-40 %D	--	± 25				
50273972						TB-013-WQ-20201120	ND	ug/L	UJ
50273972	18216839CCV	Propionitrile	-33 %D	--	± 25				
50273972						TB-013-WQ-20201120	ND	ug/L	UJ
50273972	18195656CCV	Famphur	28 %D	--	± 25				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ
50273972	18195656CCV	Hexachlorophene	-54 %D	--	± 25				
50273972						D-3-WG-20201120	ND	ug/L	UJ
50273972						D-87-WG-20201120	ND	ug/L	UJ
50273972						DUP-005-WG-20201120	ND	ug/L	UJ
50273972						EB-004-WQ-20201120	ND	ug/L	UJ
50273972						S-5-WG-20201120	ND	ug/L	UJ

Notes:
CCV = Continuing calibration verification
%D = Percent difference
ICV = Initial calibration verification
RRF = relative response factor
%R = Percent recovery

Table 7
Laboratory Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50273972	2745054BLANK-50273972	1,2-Dichlorobenzene	0.30 J	1.0				ug/L	
50273972		1,2-Dichlorobenzene			S-5-WG-20201120	2.8	5.0	ug/L	5.0 U
50273972		1,2-Dichlorobenzene			DUP-005-WG-20201120	2.9	5.0	ug/L	5.0 U
50273972	2745054BLANK-50273972	1,2,3-Trichlorobenzene	0.81 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	1,2,4-Trichlorobenzene	0.72 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	1,2,4-Trimethylbenzene	0.19 J	5.0				ug/L	
50273972		1,2,4-Trimethylbenzene			S-5-WG-20201120	3.7	25.0	ug/L	25.0 U
50273972		1,2,4-Trimethylbenzene			DUP-005-WG-20201120	3.5	25.0	ug/L	25.0 U
50273972	2745054BLANK-50273972	1,3-Dichlorobenzene	0.33 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	1,3,5-Trimethylbenzene	0.16 J	5.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	1,4-Dichlorobenzene	0.35 J	1.0	None for qualification, sample results > 5x blank	--	--	ug/L	--
50273972	2745054BLANK-50273972	2-Hexanone	1.6 J	20.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	4-Chlorotoluene	0.17 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	4-Isopropyltoluene	0.20 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	Acrylonitrile	1.6 J	100	None for qualification, samples ND	--	--	ug/L	--

Table 7
Laboratory Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50273972	2745054BLANK-50273972	Allyl chloride	0.61 J	20.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	Hexachlorobutadiene	0.71 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	m,p-Xylenes	0.16 J	2.0				ug/L	
50273972		m,p-Xylenes			D-3-WG-20201120	0.16	2.0	ug/L	2.0 U
50273972		m,p-Xylenes			S-5-WG-20201120	3.6	10.0	ug/L	10.0 U
50273972		m,p-Xylenes			DUP-005-WG-20201120	3.8	10.0	ug/L	10.0 U
50273972	2745054BLANK-50273972	Methacrylonitrile	0.89 J	100	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	Methyl acetate	1.1 J	20.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	n-Butylbenzene	0.35 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	n-Propylbenzene	0.14 J	1.0				ug/L	
50273972		n-Propylbenzene			S-5-WG-20201120	2.1	5.0	ug/L	5.0 U
50273972	2745054BLANK-50273972	o-Xylene	0.073 J	1.0				ug/L	
50273972		o-Xylene			S-5-WG-20201120	1.1	5.0	ug/L	5.0 U
50273972		o-Xylene			DUP-005-WG-20201120	0.95	5.0	ug/L	5.0 U
50273972	2745054BLANK-50273972	Xylene, Total	0.23 J	3.0				ug/L	
50273972		Xylene, Total			D-3-WG-20201120	0.16	3.0	ug/L	3.0 U
50273972		Xylene, Total			S-5-WG-20201120	4.7	15.0	ug/L	15.0 U
50273972		Xylene, Total			DUP-005-WG-20201120	4.7	15.0	ug/L	15.0 U

Table 7
Laboratory Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50273972	2745054BLANK-50273972	Propionitrile	3.6 J	100	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	sec-Butylbenzene	0.20 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2745054BLANK-50273972	Styrene	0.12 J	1.0	None for qualification, samples ND	--	--	ug/L	--
50273972	2748367BLANK-50273972	Boron, Total	13.4 J	100				ug/L	
50273972		Boron, Total			EB-004-WQ-20201120	14.3	100	ug/L	100 U
50273972	2755960BLANK-50273972	Sodium, Dissolved	55.5 J	1000	None for qualification, sample results > 5x blank	--	--	ug/L	--
50273972	2118474BLANK-50273972	Methane	3.4 J	5.0				ug/L	
50273972		Methane			EB-004-WQ-20201120	13	5.0	ug/L	J+

Notes:
RL = Reporting Limit

Table 8
Field Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50273972	FILTB-003-WQ-20201103	Calcium, Dissolved	413 J	500	None for qualification, associated samples > 5x blank	--	--	ug/L	--
50273972	FILTB-003-WQ-20201103	Copper, Dissolved	0.32 J	1.0				ug/L	
50273972		Copper, Dissolved			D-3-WG-20201120	1.2	1.0	ug/L	J+
50273972		Copper, Dissolved			D-87-WG-20201120	1.1	1.0	ug/L	J+
50273972		Copper, Dissolved			DUP-005-WG-20201120	0.32	1.0	ug/L	1.0 U
50273972		Copper, Dissolved			S-5-WG-20201120	0.33	1.0	ug/L	1.0 U
50273972	FILTB-003-WQ-20201103	Iron, Dissolved	26.2 J	50.0	None for qualification, associated samples > 5x blank	--	--	ug/L	--
50273972	FILTB-003-WQ-20201103	Magnesium, Dissolved	172 J	500	None for qualification, associated samples > 5x blank	--	--	ug/L	--
50273972	FILTB-003-WQ-20201103	Titanium, Dissolved	0.78 J	10.0				ug/L	
50273972		Titanium, Dissolved			DUP-005-WG-20201120	2.8	10.0	ug/L	10.0 U
50273972		Titanium, Dissolved			S-5-WG-20201120	2.7	10.0	ug/L	10.0 U
50273972	EB-004-WQ-20201120	Carbon disulfide	0.24 J	5.0	None for qualification, associated samples ND	--	--	ug/L	--
50273972	EB-004-WQ-20201120	Chloroform	0.40 J	1.0	None for qualification, associated samples ND	--	--	ug/L	--
50273972	EB-004-WQ-20201120	Copper, Total	0.21 J	1.0				ug/L	
50273972		Copper, Total			D-3-WG-20201120	0.52	1.0	ug/L	1.0 U
50273972		Copper, Total			D-87-WG-20201120	0.41	1.0	ug/L	1.0 U
50273972		Copper, Total			DUP-005-WG-20201120	0.63	1.0	ug/L	1.0 U
50273972		Copper, Total			S-5-WG-20201120	0.63	1.0	ug/L	1.0 U

Table 8
Field Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50273972	EB-004-WQ-20201120	Lithium, Total	3.7 J	20.0	None for qualification, associated samples > 5x blank	--	--	ug/L	--
50273972	EB-004-WQ-20201120	Methane	13	5.0	None for qualification, associated samples > 5x blank	--	--	ug/L	--
50273972	EB-004-WQ-20201120	Potassium, Total	280 J	1000	None for qualification, associated samples > 5x blank	--	--	ug/L	--
50273972	EB-004-WQ-20201120	Silicon, Total	26.4 J	200	None for qualification, associated samples > 5x blank	--	--	ug/L	--
50273972	EB-004-WQ-20201120	Sodium, Total	276 J	1000	None for qualification, associated samples > 5x blank	--	--	ug/L	--
50273972	EB-004-WQ-20201123	Phosphorus	0.034	0.050	None for qualification, associated samples > 5x blank	--	--	mg/L	--

Notes:
RL = Reporting Limit

Table 9
Spike Recoveries Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Spike Sample ID	Associated Sample	Analyte	Recovery (%)	Limit (%)	RPD	RPD Limit	Result	Units	ERM Qualifier
LCS/LCSD										
50273972	2744269LCS-50273972/		1,4-Dioxane	11/	50-150					
50273972		D-87-WG-20201120	1,4-Dioxane					<100	ug/L	R
50273972		EB-004-WQ-20201120	1,4-Dioxane					<100	ug/L	R
50273972	2745055LCS-50273972/		1,4-Dioxane	20/	50-150					
50273972		D-3-WG-20201120	1,4-Dioxane					<100	ug/L	R
50273972		DUP-005-WG-20201120	1,4-Dioxane					<500	ug/L	R
50273972		S-5-WG-20201120	1,4-Dioxane					<500	ug/L	R
50273972	2745149LCS-50273972/		1,4-Dioxane	40/	50-150					
50273972		TB-013-WQ-20201120	1,4-Dioxane					<100	ug/L	UJ
MS/MSD										
50273972	D-3-WG-20201120MS/ D-3-WG-20201120MSD	None for qualification, sample > 4x spike concentration	Calcium, Dissolved	151/Pass	75-125	Pass	20	--	--	--
50273972	D-3-WG-20201120MS/ D-3-WG-20201120MSD	None for qualification, sample > 4x spike concentration	Sodium, Dissolved	168/Pass	75-125	Pass	20	--	--	--
50273972	D-87-WG-20201120MS/ D-87-WG-20201120MSD	None for qualification, sample > 4x spike concentration	Calcium, Total	53/73	75-125	Pass	20	--	--	--
50273972	S-5-WG-20201120MS/ S-5-WG-20201120MSD		Cyanide CN-	Pass/89	90-110	Pass	20			
50273972		S-5-WG-20201120	Cyanide CN-					0.0026	mg/L	J-

Notes:
LCS/LCSD = Laboratory control sample/laboratory control sample duplicate
MS/MSD - Matrix spike/matrix spike duplicate
RPD = Relative percent difference

Table 13
Laboratory Duplicate Result Outliers
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Primary/ Duplicate Sample ID	Analyte	Concentration		Reporting Limit		Units	AbD	RPD	RPD Limit	ERM Qualifier
			Sample	Duplicate	Sample	Duplicate					
50273972	S-5-WG-20201120/ S-5-WG-20201120DUP	Total Suspended Solids	36	46	12.5	12.5	mg/L	10	23	10	None, results < 5x RL and AbD <1x RL

Notes:
AbD = Absolute Difference
RPD = Relative percent difference

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Memorandum

To	Alice Sandzen
From	Jack James
Date	2021-08-23
Reference	0579381
Subject	Revised Data Review of West Lake OU-3 RI/FS Routine Groundwater Samples Collected 11/23/2020: Pace Data Package 50274044.

This memorandum was revised to address changes to total xylene method blank contamination issued by the laboratory after the first revision was complete. Table 7 has been revised as needed.

This memorandum was previously revised to address changes to the initial calibration verification data for Gas Chromatography/Mass Spectrometry methods issued by the laboratory after the initial validation was complete. Table 6 has been revised as needed.

The data quality was assessed and any necessary qualifiers were applied following the Quality Assurance Project Plan (QAPP) for West Lake OU-3 Remediation Investigation/Feasibility Study, Revision 3, December 2020, USEPA Contract Laboratory Program (CLP) NFGs for Organic Superfund Methods Data Review, document number EPA-540-R-2017-002, January 2017, USEPA CLP NFGs for Inorganic Superfund Methods Data Review, document number EPA-540-R-2017-001, January 2017, and USEPA Region 1—New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures, EQADR-Supplement1, June 2018, the protocols and quality control (QC) requirements of the analytical methods, and the reviewer's professional judgement.

A Stage 2B data validation was performed on 100% of the laboratory data.

The following items were reviewed as part of the data validation:

- **Chain of Custody:** The chains of custody were reviewed for proper completion and that the laboratory performed the requested methods and reported the requested target analytes for each sample.
- **Dilutions and Reanalysis:** Dilutions, calibration ranges, and reanalyses were reviewed as applicable. The best result was chosen when more than one result was reported as final.
- **Sample Preservation:** The appropriate temperature and chemical preservation requirements were reviewed. Headspace for volatile sample analysis was reviewed.
- **Holding Times:** The period of time between collection of the sample and preparation/analysis of the sample was evaluated.
- **Instrument Tuning:** Instrument tuning and performance check frequency and results were reviewed.

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- **Calibration:** The initial calibration type, fit, number of standards, and minimum response factors were evaluated. Additionally, the frequency and percent recoveries for initial and continuing calibration verification standards and blanks were evaluated.
- **Laboratory Blank Samples:** The preparation and analysis of reagent (contaminant-free) water was evaluated, along with the required frequency.
- **Field Blank Samples:** The collection and analysis of field blanks was evaluated. The reviewed data package(s) included the following associated field blanks: trip, filter, and equipment
- **Spike Samples:** Laboratory control, matrix spike, and post digestion spike sample preparation frequency and recoveries were reviewed as applicable.
- **Serial Dilutions:** Serial dilution sample preparation frequency and recoveries were reviewed as applicable.
- **Surrogate Spikes:** The addition of appropriate surrogates and their recoveries were evaluated.
- **Internal standards:** The presence and recoveries of internal standards and their appropriate association to target analytes were reviewed.
- **Laboratory Duplicate Samples:** Laboratory duplicate frequencies and recoveries were reviewed as applicable.
- **Field Duplicate Samples:** Field duplicate recoveries and absolute differences were reviewed as applicable.
- **Column Agreement:** Column agreements were reviewed for relevant methods.

Findings of the data validation are summarized in the sections below. As necessary, the following data quality flags were applied during validation.

J = estimated concentration
J+ = the result is an estimated concentration, but may be biased high
J- = the result is an estimated concentration, but may be biased low
UJ = estimated reporting limit
U = evaluated to be non-detected at the reporting limit
R = rejected, data not usable
NJ = tentative identification and estimated concentration

Validation outliers and any necessary data qualifications are summarized in outlier tables at the end of this memo. The table below indicates the included validation tables with findings. Tables without findings have been omitted.

Table Number	Table Name	Included
Table 1	Samples with Non-Preferred Results	No
Table 2	Samples with Exceeded Preservation Requirements	No
Table 3	**Samples with Exceeded Holding Times**	**Yes**
Table 4	Instrument Tuning Outside of Acceptable Limits	No
Table 5	**Initial Calibration Outside of Acceptable Limits**	**Yes**
Table 6	**Calibration Verification Outside of Acceptable Limits**	**Yes**
Table 7	**Laboratory Blank and Associated Suspect Sample Detections**	**Yes**
Table 8	**Field Blank and Associated Suspect Sample Detections**	**Yes**

Table Number	Table Name	Included
Table 9	**Spike Recoveries Outside of Acceptable Limits**	**Yes**
Table 10	Serial Dilution Recoveries Outside of Acceptable Limits	No
Table 11	Surrogate Recovery Results out of Acceptable Limits	No
Table 12	Internal Standard Recovery Results out of Acceptable Limits	No
Table 13	Laboratory Duplicate Result Outliers	No
Table 14	Field Duplicate Result Outliers	No
Table 15	Column Agreement Outliers	No
Table 16	Calibration Range Exceedances	No
Table 17	Professional Judgement Qualifiers	No

Findings of the data validation are summarized in the sections below.

CASE NARRATIVE NOTES AND CHAIN-OF-CUSTODY DISCREPANCIES

The laboratory indicated that it does not hold NELAC/TNI accreditation for the methods and parameters in non-potable water listed below. No qualifiers were applied based on accreditation status. Supporting calibrations and quality control data was provided for these analytes and reviewed as part of the data validation.

Method	Analyte without NELAC/TNI Accreditation	
	CAS	Analyte Name
EPA SW 6020	7440-29-1	Thorium
	7440-61-1	Uranium
EPA SW 6010	7440-21-3	Silicon
EPA SW 8082	1336-36-3	Total PCBs
EPA SW 8270	92-52-4	Biphenyl
	99-35-4	1,3,5-Trinitrobenzene
	1912-24-9	Atrazine
	106-50-3	p-Phenylenediamine
	105-60-2	Caprolactam
	95-53-4	o-Toluidine
	100-52-7	Benzaldehyde
EPA SW 8260	110-82-7	Cyclohexane
	108-87-2	Methylcyclohexane
	78-83-1	Isobutyl alcohol
	79-20-9	Methyl acetate
	126-99-8	beta-Chloroprene
EPA SW 9056	20461-54-5	Iodide

No discrepancies between the chains-of-custody and the sample containers received were noted by the laboratory.

PRESERVATION AND HOLDING TIME EVALUATION

The laboratory received the sample shipments within the method-prescribed temperature preservation requirements of less than 6 degrees Celsius, with acceptable sample pH values, and all vials for volatile analysis were received in good condition with headspace of less than 6 millimeters.

The samples were prepared and analyzed within the method-prescribed time period from the date of collection, with the exceptions and any necessary qualifications noted in Table 3.

INSTRUMENT TUNING EVALUATION

All tuning criteria met method acceptance criteria.

INITIAL CALIBRATION

The initial calibrations met the minimum number of calibration standards, project required percent standard deviation (%RSD), relative correlation coefficient, and minimum relative response factor (RRF) limits (as applicable to the methods) for target analytes, with the exceptions and any necessary qualifications noted in Table 5.

INITIAL CALIBRATION VERIFICATION (ICV) AND CONTINUING CALIBRATION VERIFICATION (CCV) EVALUATION

The initial and continuing calibration verifications were within project-specified percent difference (%D) or percent recoveries (%R) and RRF limits (as applicable to the methods) for target analytes, with the exceptions and any necessary qualifications noted in Table 6.

Situations that required additional professional judgement are detailed below:

- SVOC analytes acetophenone, atrazine, benzaldehyde, biphenyl (diphenyl), caprolactam, N-nitrosodiphenylamine, and 1,2,4,5-tetrachlorobenzene were not reported in the ICV samples. These analytes were present in the initial calibrations and CCV samples and were within control limits. The non-detected results in associated samples have been qualified UJ.

LABORATORY BLANK EVALUATION

The laboratory blank sample results were non-detected for each of the target analytes, with the exceptions and any necessary qualifications noted in Table 7. The blank results indicate that contaminants may have been introduced to the samples during processing or analysis in the laboratory.

FIELD BLANK EVALUATION

The trip, filter, and equipment blank sample results were non-detected for each of the target analytes, with the exceptions and any necessary qualifications noted in Table 8. Any field blank detections associated with laboratory blank contamination and qualified as non-detected (U) are not included in Table 8. The blank results indicate that contaminants may have been introduced to the samples during collection, shipment, handling, and storage.

BLANK AND MATRIX SPIKE EVALUATION

The laboratory control sample (LCS), laboratory control sample duplicate (LCSD) recoveries, and relative percent differences (RPDs) were within the laboratory's limits of acceptance, with the exceptions and any necessary qualifications noted in Table 9. Data were not qualified if a high recovery was associated with a non-detected result.

The matrix spike (MS), matrix spike duplicate (MSD) recoveries, and RPDs were within the laboratory's limits of acceptance for target analytes for spiked project samples, with the exceptions and any necessary qualifications noted in Table 9. MS/MSDs performed on non-project samples were not reviewed. Data were not qualified if the analyte concentration in the parent sample was greater than four times the spike amount, if the spike amount was diluted out prior to analysis, or if a high recovery was associated with a non-detected result.

SERIAL DILUTION EVALUATION

The laboratory did not perform serial dilutions on any project samples. Serial dilutions performed on non-project samples were not reviewed.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within the laboratory limits of acceptance. The acceptable surrogate recoveries indicate minimal matrix interference in the samples.

INTERNAL STANDARD EVALUATION

The internal standard responses for reported results were within acceptable limits. The acceptable internal standard responses indicate that the instrument sensitivity and response were stable during each analysis.

LABORATORY DUPLICATE EVALUATION

The laboratory prepared at least one project sample as a laboratory duplicate. Laboratory duplicates performed on non-project samples were not reviewed. The RPDs between the primary sample and the duplicate were within laboratory control limits, indicating acceptable laboratory precision.

FIELD DUPLICATE EVALUATION

No field duplicates were submitted to the laboratory.

COLUMN AGREEMENT EVALUATION

Column agreements met method criteria for dual column analysis.

CALIBRATION RANGE EVALUATION

All results were reported within each instrument's calibration range.

SENSITIVITY

The sample results were reported to the method detection limit. Results between the method detection limit and the reporting limit were flagged as estimated (J) by the laboratory. A number of sample analyses were performed at a dilution factor, resulting in non-detected results reported at elevated reporting limits due to the presence of high levels of non-target analytes or other matrix interference.

COMPLETENESS

The complete data package consisted of 954 reportable data points excluding field blank samples. 1 data points were rejected. The data completeness measure for this data package is calculated to be 99.9%. The project laboratory completeness goal of 95% was met.

OVERALL ASSESSMENT

All qualified data, excluding rejected data, can be used for decision-making purposes; however, the limitation identified by the applied qualifier should be considered when using the data. The quality of the data generated during this investigation is acceptable for the preparation of technically defensible documents.

Table 3
Samples with Exceeded Holding Times
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Sample ID	Method	Extraction Holding Time	Total Time	Analysis Holding Time	Total Time	Affected Analyte	ERM Qualifier
50274044	D-93-WG-20201123	SM4500-H-B	--	--	15 min.	3088 min.	pH	J
50274044	EB-004-WQ-20201123	SM4500-H-B	--	--	15 min.	3253 min.	pH	J
50274044	I-9-WG-20201123	SM4500-H-B	--	--	15 min.	3010 min.	pH	J
50274044	S-82-WG-20201123	SM4500-H-B	--	--	15 min.	3180 min.	pH	J

Notes:
min. = minutes

Table 5
Initial Calibration Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	IC Sample ID	Analyte	IC RSD (%)	IC RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50274044	8260 Instrument 50MV2A 11/17/2020	cis-1,2-Dichloroethene	37	--	20				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044	8260 Instrument 50MV2A 11/17/2020	1,4-Dioxane	97	--	20				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044	8260 Instrument 50MV2A 11/17/2020	Iodomethane	38	--	20				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044	8260 Instrument 50MV2B 11/17/20	1,4-Dioxane	41	--	20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	8260 Instrument 50MV2B 11/17/20	Iodomethane	46	--	20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	8270 Instrument 50MSS2 10/07/2020	Hexachlorophene	40	--	20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ

Notes:
IC = Initial calibration
RSD = Relative standard deviation
RRF = Relative response factor

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50274044	18159139ICV	Bromomethane	152 %R	--	70-130				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044	18159139ICV	Iodomethane	143 %R	--	75-125				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044	18159139ICV	Vinyl acetate	60 %R	--	75-125				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044	18159757ICV	Bromomethane	158 %R	--	70-130				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18159757ICV	Iodomethane	170 %R	--	75-125				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18159757ICV	Allyl chloride	190 %R	--	75-125				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18159757ICV	Vinyl acetate	62 %R	--	75-125				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	17876511ICV	3,3'-Dimethylbenzidine	138 %R	--	75-125				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50274044	17876511ICV	Kepone	132 %R	--	75-125				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	17876511ICV	Famphur	132 %R	--	75-125				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	Not present in ICV	Acetophenone	--	--	--				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	Not present in ICV	Atrazine	--	--	--				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	Not present in ICV	Benzaldehyde	--	--	--				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	Not present in ICV	Biphenyl (Diphenyl)	--	--	--				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50274044	Not present in ICV	Caprolactam	--	--	--				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	Not present in ICV	N-Nitrosodiphenylamine	--	--	--				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	Not present in ICV	1,2,4,5-Tetrachlorobenzene	--	--	--				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18216832CCV	cis-1,2-Dichloroethene	-23 %D	--	± 20				
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044	18216832CCV	1,4-Dioxane	-66 %D	--	± 25				
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044	18216832CCV	Iodomethane	-31 %D	--	± 25				
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044	18216832CCV	Isobutanol	-30 %D	--	± 25				
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044	18216839CCV	cis-1,2-Dichloroethene	-23 %D	--	± 20				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044	18216839CCV	1,4-Dioxane	-94 %D	--	± 25				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044	18216839CCV	Iodomethane	-33 %D	--	± 25				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ
50274044	18216839CCV	Isobutanol	-40 %D	--	± 25				
50274044						TB-014-WQ-20201123	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50274044	18216632CCV	Bromomethane	-42 %D		± 30				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18216632CCV	Chloromethane	-33 %D		± 30				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18216632CCV	1,4-Dioxane	-60 %D		± 20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18216632CCV	Iodomethane	-49 %D		± 25				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18216632CCV	Isobutanol	-30 %D		± 25				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18209178CCV	Butylbenzylphthalate	34 %D		± 25				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18209178CCV	Di-n-butylphthalate	23 %D		± 20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18209178CCV	Di-n-octylphthalate	43 %D		± 40				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50274044	18209178CCV	bis(2-Ethylhexyl)phthalate	31 %D		± 25				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18209178CCV	2-Nitrophenol	25 %D		± 20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18209222CCV	Hexachlorophene	-35 %D		± 25				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18215832CCV	2,4-D	43 %D		± 20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18215832CCV	Dinoseb	58 %D		± 20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ
50274044	18215832CCV	2,4,5-T	63 %D		± 20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ

Table 6
Calibration Verification Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	ICV/CCV Sample ID	Analyte	ICV/CCV (%)	ICV/CCV RRF	Limits	Associated Sample	Result	Units	ERM Qualifier
50274044	18215832CCV	2,4,5-TP	39 %D		± 20				
50274044						D-93-WG-20201123	ND	ug/L	UJ
50274044						I-9-WG-20201123	ND	ug/L	UJ
50274044						S-82-WG-20201123	ND	ug/L	UJ

Notes:
CCV = Continuing calibration verification
%D = Percent difference
ICV = Initial calibration verification
RRF = relative response factor
%R = Percent recovery

Table 7
Laboratory Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50274044	2745054BLANK-50274044	1,2-Dichlorobenzene	0.30 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	1,2,3-Trichlorobenzene	0.81 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	1,2,4-Trichlorobenzene	0.72 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	1,2,4-Trimethylbenzene	0.19 J	5.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	1,3-Dichlorobenzene	0.33 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	1,3,5-Trimethylbenzene	0.16 J	5.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	1,4-Dichlorobenzene	0.35 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	2-Hexanone	1.6 J	20.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	4-Chlorotoluene	0.17 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	4-Isopropyltoluene	0.20 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	Acrylonitrile	1.6 J	100	None for qualification, ND in associated sample	--	--	ug/L	--

Table 7
Laboratory Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50274044	2745054BLANK-50274044	Allyl chloride	0.61 J	20.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	Hexachlorobutadiene	0.71 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	m,p-Xylenes	0.16 J	2.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	Methacrylonitrile	0.89 J	100	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	Methyl acetate	1.1 J	20.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	n-Butylbenzene	0.35 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	n-Propylbenzene	0.14 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	o-Xylene	0.073 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	Xylene, Total	0.23 J	3.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	Propionitrile	3.6 J	100	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2745054BLANK-50274044	sec-Butylbenzene	0.20 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--

Table 7
Laboratory Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50274044	2745054BLANK-50274044	Styrene	0.12 J	1.0	None for qualification, ND in associated sample	--	--	ug/L	--
50274044	2748367BLANK-50274044	Boron, Total	13.4 J	100	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	2755960BLANK-50274044	Sodium, Dissolved	55.5 J	1000	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	2118474BLANK-50274044	Methane	3.4 J	5.0	None for qualification, sample results > 5x blank	--	--	ug/L	--

Notes:
RL = Reporting Limit

Table 8
Field Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50274044	FILTB-003-WQ-20201103	Calcium, Dissolved	413 J	500	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	FILTB-003-WQ-20201103	Copper, Dissolved	0.32 J	1.0				ug/L	
50274044		Copper, Dissolved			D-93-WG-20201123	0.59	1.0	ug/L	1.0 U
50274044		Copper, Dissolved			I-9-WG-20201123	0.77	1.0	ug/L	1.0 U
50274044		Copper, Dissolved			S-82-WG-20201123	0.68	1.0	ug/L	1.0 U
50274044	FILTB-003-WQ-20201103	Iron, Dissolved	26.2 J	50.0	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	FILTB-003-WQ-20201103	Magnesium, Dissolved	172 J	500	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	FILTB-003-WQ-20201103	Titanium, Dissolved	0.78 J	10.0				ug/L	
50274044		Titanium, Dissolved			D-93-WG-20201123	2.7	10.0	ug/L	10.0 U
50274044	EB-004-WQ-20201120	Carbon disulfide	0.24 J	5.0	None for qualification, associated samples ND	--	--	ug/L	--
50274044	EB-004-WQ-20201120	Chloroform	0.40 J	1.0	None for qualification, associated samples ND	--	--	ug/L	--
50274044	EB-004-WQ-20201120	Copper, Total	0.21 J	1.0				ug/L	
50274044		Copper, Total			D-93-WG-20201123	0.77	1.0	ug/L	1.0 U
50274044		Copper, Total			I-9-WG-20201123	1.0	1.0	ug/L	J+
50274044		Copper, Total			S-82-WG-20201123	0.47	1.0	ug/L	1.0 U
50274044	EB-004-WQ-20201120	Lithium, Total	3.7 J	20.0	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	EB-004-WQ-20201120	Methane	13	5.0	None for qualification, sample results > 5x blank	--	--	ug/L	--

Table 8
Field Blank and Associated Suspect Sample Detections
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Blank ID	Detected Analyte	Reported Blank Conc.	Blank Report Limit	Associated Sample	Assoc. Sample Result	Assoc. Sample RL	Units	ERM Qualifier
50274044	EB-004-WQ-20201120	Potassium, Total	280 J	1000	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	EB-004-WQ-20201120	Silicon, Total	26.4 J	200	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	EB-004-WQ-20201120	Sodium, Total	276 J	1000	None for qualification, sample results > 5x blank	--	--	ug/L	--
50274044	EB-004-WQ-20201123	Phosphorus	0.034 J	0.050	None for qualification, sample results > 5x blank	--	--	mg/L	--

Notes:
RL = Reporting Limit

Table 9
Spike Recoveries Outside of Acceptable Limits
West Lake OU-3 RI/FS Routine Groundwater

Lab Package	Spike Sample ID	Associated Sample	Analyte	Recovery (%)	Limit (%)	RPD	RPD Limit	Result	Units	ERM Qualifier
LCS/LCSD										
50274044	2745055LCS-50274044/		1,4-Dioxane	20/	50-150					
50274044		I-9-WG-20201123	1,4-Dioxane					<100	ug/L	R
50274044	2745149LCS-50274044/		1,4-Dioxane	40/	50-150					
50274044		TB-014-WQ-20201123	1,4-Dioxane					<100	ug/L	UJ
50274044	2746232LCS-50274044/	None for qualification, samples ND	Allyl chloride	190/	70-130	--	--	--	--	--
50274044	2746232LCS-50274044/	None for qualification, samples ND	tert-Butylbenzene	110/	58-106	--	--	--	--	--
MS/MSD										
50274044	S-82-WG-20201123MS/		Ammoniacal Nitrogen NH3N	80/	90-110					
50274044		S-82-WG-20201123	Ammoniacal Nitrogen NH3N					13.1	mg/L	J-

Notes:
LCS/LCSD = Laboratory control sample/laboratory control sample duplicate
MS/MSD = Matrix spike/matrix spike duplicate
RPD = Relative percent difference