TETRA TECH

TECHNICAL MEMORANDUM

To:	**Nevada Environmental Response Trust**
Cc:	Nevada Division of Environmental Protection United States Environmental Protection Agency
From:	Dana Grady
Date:	September 9, 2024
Subject:	**Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study Monthly Progress Report**

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum to summarize Tetra Tech's progress during July 2024 toward successfully implementing the Las Vegas Wash Zero-Valent Iron (ZVI)-Enhanced Bioremediation Treatability Study.

Task Progress Update: July 2024

Task M18 – Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

- Current Status –

  The Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study is being conducted to evaluate the effectiveness of ZVI-enhanced bioremediation of perchlorate-contaminated groundwater that has migrated downgradient of the NERT site toward the Las Vegas Wash. The general treatability study layout, including locations of the continuous and discontinuous ZVI walls and associated injection well and monitoring well network, is presented on **Figures 1, 2a,** and **2b**. Well construction details are provided in **Table 1**. The construction phase of the treatability study was completed on April 24, 2023 and the performance monitoring phase is ongoing.

  - Performance Monitoring – The performance monitoring program included a pre-construction, baseline groundwater sampling event completed in October 2022 prior to installation of the continuous and discontinuous ZVI walls and performance monitoring network. Following construction of the ZVI walls, installation of the performance monitoring network, and injection of biological inoculum and nutrient solution (completed in February through April 2023), the post-construction performance monitoring program began in May 2023 and is ongoing. The performance monitoring program is being implemented in accordance with the NDEP-approved Work Plan Addendum, which includes monthly synoptic gauging events to evaluate hydrologic changes over time and groundwater sampling events approximately one month after completion of the construction phase and quarterly thereafter for a total of 16 months. To date, 15 monthly synoptic gauging events have been completed, with the most recent on July 15, 2024. Since May 2023, five groundwater performance monitoring events have been completed, with the Month 1

event completed in May 2023, followed by quarterly events in August 2023, November/December 2023, February 2024, and May 2024. The results of the fourth quarterly performance monitoring event conducted from May 20 through May 28, 2024 (approximately 13 months after completion of the construction phase) are summarized herein. During the May 2024 quarterly groundwater performance monitoring event, Pace Analytical National (Pace) notified Tetra Tech that the analytical equipment for analysis of dissolved hydrogen was no longer operational. Furthermore, Pace indicated they would no longer offer analysis of dissolved hydrogen by AM20GAX, which is the method included in the NDEP-approved Work Plan Addendum. As a result, dissolved hydrogen results for the May 2024 groundwater sampling event are not available. Draft groundwater analytical results from the baseline sampling event and the subsequent performance monitoring events are presented in **Table 2**.

It should be noted that in accordance with Section 7.6.4 of the NDEP-approved Work Plan Addendum, the majority of the performance monitoring network had to be installed after emplacement of the ZVI to prevent damage to well infrastructure. As a result, pre-construction baseline concentrations are not available on a well-by-well basis for all performance monitoring wells. Therefore, performance is being evaluated by comparing constituent concentrations from individual monitoring wells to the average October 2022 baseline concentration within each treatability study test area. For example, samples collected from each performance monitoring well installed in Test Area 1a are compared to the average concentration of samples collected from existing pre-construction wells within Test Area 1a during the October 2022 baseline sampling event.

- Groundwater Monitoring Results – Notable groundwater results from the May 2024 sampling event are provided below for each Test Area.
    - Test Area 1a – Test Area 1a includes the northernmost 100 feet of the 3-foot wide, 200-foot-long continuous ZVI wall installed in the alluvium via one pass trenching, which was backfilled with 10 percent ZVI by weight.
        - Groundwater samples collected from upgradient monitoring wells screened in the alluvium in May 2024 indicated an average perchlorate concentration of 4,438 micrograms per liter (µg/L), which is slightly lower than the average October 2022 baseline perchlorate concentration for the alluvium in Test Area 1a of 4,607 µg/L. Results of the groundwater samples collected from monitoring wells located directly within the continuous ZVI wall indicated perchlorate concentrations ranging from 2,860 µg/L to 3,910 µg/L, which represents reductions ranging from 15 percent to 38 percent compared to the average baseline concentration of 4,607 µg/L. Groundwater samples collected from the 11 downgradient monitoring wells screened in the alluvium during the May 2024 sampling event did not indicate reductions compared to the average baseline perchlorate concentration and were generally in line with the average perchlorate concentration reported in groundwater samples collected from upgradient monitoring wells. These results correlate with bench-scale study results that indicated that the removal of nitrate and chlorate can be rapid due to abiotic processes occurring primarily on the ZVI surface, while the reduction of perchlorate is slower and performed predominantly by autotrophic perchlorate-reducing bacteria using hydrogen generated at the ZVI surface. The perchlorate concentrations within Test Area 1a will continue to be monitored.

- Concentration reductions of chlorate and nitrate were more pronounced than perchlorate reductions, which is consistent with the conclusions of the bench-scale study (as previously explained). Groundwater samples collected from the three monitoring wells located within the continuous ZVI wall indicated chlorate concentration reductions ranging from 74 percent to 80 percent and nitrate concentrations of less than the sample detection limit of 0.48 milligrams per liter (mg/L), which represent reductions of 97 percent when compared to baseline concentrations. Groundwater samples collected from two of the six monitoring wells located 5 to 15 feet downgradient of the continuous ZVI wall indicated chlorate concentrations reductions of approximately 25 percent when compared to baseline. Groundwater samples collected from three of the six monitoring wells located 5 to 15 feet downgradient of the continuous ZVI wall indicated nitrate concentration reductions ranging from 11 percent to 24 percent.

- Test Area 1b –Test Area 1b includes the southernmost 100 feet of the 3-foot wide, 200-foot-long continuous ZVI wall installed in the alluvium via one pass trenching, which was backfilled with 30 percent ZVI by weight.
  - Groundwater samples collected from upgradient monitoring wells screened in the alluvium in May 2024 indicated an average perchlorate concentration of 6,118 µg/L, which is slightly lower than the average October 2022 baseline perchlorate concentration of 7,234 µg/L. Groundwater samples collected from the three monitoring wells located within the continuous ZVI wall indicated perchlorate concentrations ranging from 4,530 µg/L to 5,880 µg/L. Although these concentrations represent reductions ranging from 19 percent to 37 percent compared to the average baseline concentration of 7,234 µg/L in October 2022, the May 2024 concentrations in the groundwater samples collected from within the continuous ZVI wall are only approximately 17 percent lower than the current upgradient perchlorate concentrations. Samples collected during the May 2024 sampling event from the 11 downgradient alluvium monitoring wells indicated reductions in perchlorate concentrations ranging from 14 percent to 38 percent when compared to the average baseline perchlorate concentration, with the largest reductions present approximately 5 to 15 feet downgradient of the continuous ZVI wall.
  - Reductions in chlorate and nitrate concentrations in groundwater samples collected from monitoring wells within Test Area 1b were significantly more pronounced than those reported for perchlorate. Chlorate concentrations in groundwater samples collected from 13 of the 14 monitoring wells within Test Area 1b (wells located both within the continuous ZVI wall and downgradient) reduced by an average of 96 percent compared to the average baseline chlorate concentration. Furthermore, chlorate concentrations reduced to less than the laboratory detection limit in groundwater samples collected from nine monitoring wells, including a groundwater sample collected from one monitoring well located 100 feet downgradient of the continuous ZVI wall. Similarly, groundwater samples collected from 12 of the 14 monitoring wells located within or downgradient of the continuous ZVI wall indicated

nitrate concentration reductions averaging 84 percent and ranging from 33 percent to 97 percent compared to baseline.

- Test Area 2a –Test Area 2a is a 24-foot long, discontinuous ZVI wall that targets the alluvium and is comprised of seventeen 12-inch diameter ZVI-filled borings installed along two staggered rows, with each boring backfilled with 50% ZVI by weight.
    - Groundwater samples collected from upgradient monitoring wells screened in the alluvium in May 2024 indicated an average perchlorate concentration of 6,063 µg/L, which is slightly less than the average October 2022 baseline perchlorate concentration for Test Area 2a of 6,798 µg/L. The most notable perchlorate concentration reduction of 44 percent when compared to baseline concentrations was reported in the groundwater sample collected from ZTS-MW191 (located immediately downgradient of the discontinuous ZVI wall), with a concentration of 3,830 µg/L during the May 2024 sampling event. This result represents the lowest perchlorate concentration in groundwater samples collected from Test Area 2a to-date.
    - Chlorate and nitrate concentration reductions of 69 percent and 12 percent, respectively, were reported in the groundwater sample collected from monitoring well ZTS-MW191, which is located immediately downgradient of the discontinuous ZVI wall. Chlorate and nitrate concentrations reported in groundwater samples collected from the remaining monitoring wells were similar to or higher than the baseline average concentration of 88,280 µg/L and 19 mg/L, respectively.
- Test Area 2b – Test Area 2b is a 12-foot long, discontinuous ZVI wall that targets the Upper Muddy Creek formation (UMCf) and is comprised of nine 12-inch diameter ZVI-filled borings installed along two staggered rows, with each boring backfilled with 50% ZVI by weight. Due to the large, saturated thickness of the targeted UMCf treatment interval, paired performance monitoring wells were installed at two depth intervals from approximately 25-45 feet below ground surface (bgs) and from approximately 50 to 65 feet bgs.
    - The average baseline perchlorate concentration in groundwater samples collected from monitoring wells screened in the UMCf was 3,156 µg/L. Perchlorate concentration reductions were reported in groundwater samples collected from six of the eight monitoring wells located two to seven feet downgradient of the discontinuous ZVI wall, with reductions ranging from 17 percent to 94 percent compared to the average baseline concentration of 3,156 µg/L. In general, monitoring wells screened in the shallow UMCf indicated higher reductions in perchlorate. For example, perchlorate concentrations of 207 µg/L and 187 µg/L, which represent reductions of greater than 93 percent, were reported in groundwater samples collected from downgradient shallow UMCf monitoring wells ZTS-MW136 and ZTS-MW198, respectively. Although groundwater samples collected from two downgradient deep UMCf monitoring wells (ZTS-MW200 and ZTS-MW206) indicated perchlorate concentration reductions, the reductions were notably lower, ranging from 17 percent to 41 percent.

- Chlorate concentration reductions of greater than 77 percent were reported in groundwater samples collected from five of the eight monitoring wells located two to seven feet downgradient of the discontinuous ZVI wall. Nitrate was not detected above the method detection limit of 0.48 mg/L in groundwater samples collected from four of the eight monitoring wells located two to seven feet downgradient of the discontinuous ZVI wall.

- Test Area 2c – Test Area 2c is a 24-foot long, discontinuous ZVI wall that targets the alluvium and is comprised of twenty-five 12-inch diameter ZVI-filled borings installed along three staggered rows, with each boring backfilled with 50% ZVI by weight.
  - Groundwater samples collected from upgradient monitoring wells screened in the alluvium in May 2024 indicated an average perchlorate concentration of 5,510 µg/L, which is less than the average October 2022 baseline perchlorate concentration for Test Area 2c of 6,993 µg/L. Perchlorate concentrations reported in groundwater samples collected from all nine monitoring wells located within or downgradient of the discontinuous ZVI wall were similar to upgradient concentrations, with an average perchlorate concentration of 5,846 µg/L during the May 2024 sampling event.
  - Slight chlorate reductions were reported in groundwater samples collected from within and immediately downgradient of the Test Area 2c discontinuous ZVI wall in May 2024, with notable reductions of 17 percent and 14 percent reported in the groundwater samples collected from monitoring wells ZTS-MW182 and ZTS-MW187, respectively. Nitrate concentration reductions ranging from 17 to 73 percent were observed in groundwater samples collected from six of the nine monitoring wells located within or downgradient of the discontinuous ZVI wall during the May 2024 sampling event.

- Monthly Synoptic Monitoring – Monthly synoptic monitoring is being performed to evaluate any changes in horizontal and vertical gradients, assess for potential groundwater mounding upgradient of the ZVI reactive zone, assess hydraulic effects of seasonal precipitation, and evaluate potential non-uniform flow. Results of the July 2024 monthly synoptic monitoring event do not indicate any significant changes to groundwater elevations in monitoring wells located upgradient, within, and downgradient of ZVI reactive zones.
- Aquifer Testing – Borehole dilution and slug testing activities were completed from July 17 through July 31, 2024. Data from the aquifer testing are currently being processed and will be summarized in a future monthly progress report. Results will be used to continue to assess for potential changes in hydraulic conductivity and/or groundwater velocity in the vicinity of the ZVI reactive zones.

- Schedule and Progress Updates
  - Performance Monitoring Program Update – The 16-month performance monitoring program outlined in the NDEP-approved Work Plan Addendum was scheduled to end in August 2024. Based on the results to date, the performance monitoring program was recently extended through May 2025 as presented in the *Treatability/Pilot Study Modification No. 10 – Las Vegas Wash Zero-Valent Iron (ZVI)-Enhanced Bioremediation Treatability Study* (Modification No. 10), which was submitted on July 19, 2024 and approved by NDEP on August 1, 2024. This extension

includes continued monthly synoptic gauging and three additional quarterly groundwater sampling events through May 2025, resulting in collection of two years of performance monitoring data for the Treatability Study. In addition to extension of the performance monitoring program, Modification No. 10 also updated the analytical method for dissolved hydrogen analysis for remaining sampling events to be performed by Pace's RSK175 Bubble Strip Method and/or in the field via the UniSense MicroProfiling System equipped with a hydrogen microsensor. Lastly, Modification No. 10 included the addition of post-treatment borings to be installed within the ZVI walls following completion of the treatability study. During this period, the Trust worked with the City of Henderson to extend its access rights consistent with the extended study duration as discussed above.

  - Groundwater levels will continue to be measured on a monthly basis for the duration of the treatability study through May 2025. The next monthly synoptic event will be scheduled once extended access is secured by the Trust.
  - Groundwater samples will continue to be collected on a quarterly basis to generate time-series data to evaluate the treatment effectiveness of the ZVI installations with respect to the design performance criteria. The next quarterly groundwater sampling event will be scheduled once extended access is secured by the Trust.

- Health and Safety
  - There were no health and safety incidents related to Task M18 during July 2024.

CERTIFICATION

Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study Monthly Progress Report

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

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

Office of the Nevada Environmental Response Trust

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

Not Individually, but Solely
as President of the Trustee

Signature: Jay A Steinberg, President, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Title: Solely as President and not individually

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

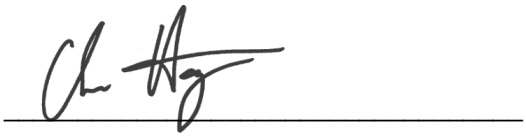
Date: 9/9/24

CERTIFICATION

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

Description of Services Provided: Prepared Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study Monthly Progress

Report.



September 9, 2024

Christopher Hayes, CEM
Environmental Engineer
Tetra Tech, Inc.

Date

Nevada CEM Certificate Number: EM2499
Nevada CEM Expiration Date: December 15, 2024

Figures

DRAFT

Legend

- Post-Construction Monitoring Well
- Inoculum Injection Well
- Existing Injection Well
- ZVI Boring
- ZVI Trench Location

Notes:
1. Imagery Source: Drone Survey, June 2023.

DOCUMENT PATH: D:\NERT\M18\MXD\MONTHLY REPORT\POST\FIGURE 1 TREATIBILITY.MXD

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NEVADA ENVIRONMENTAL RESPONSE TRUST

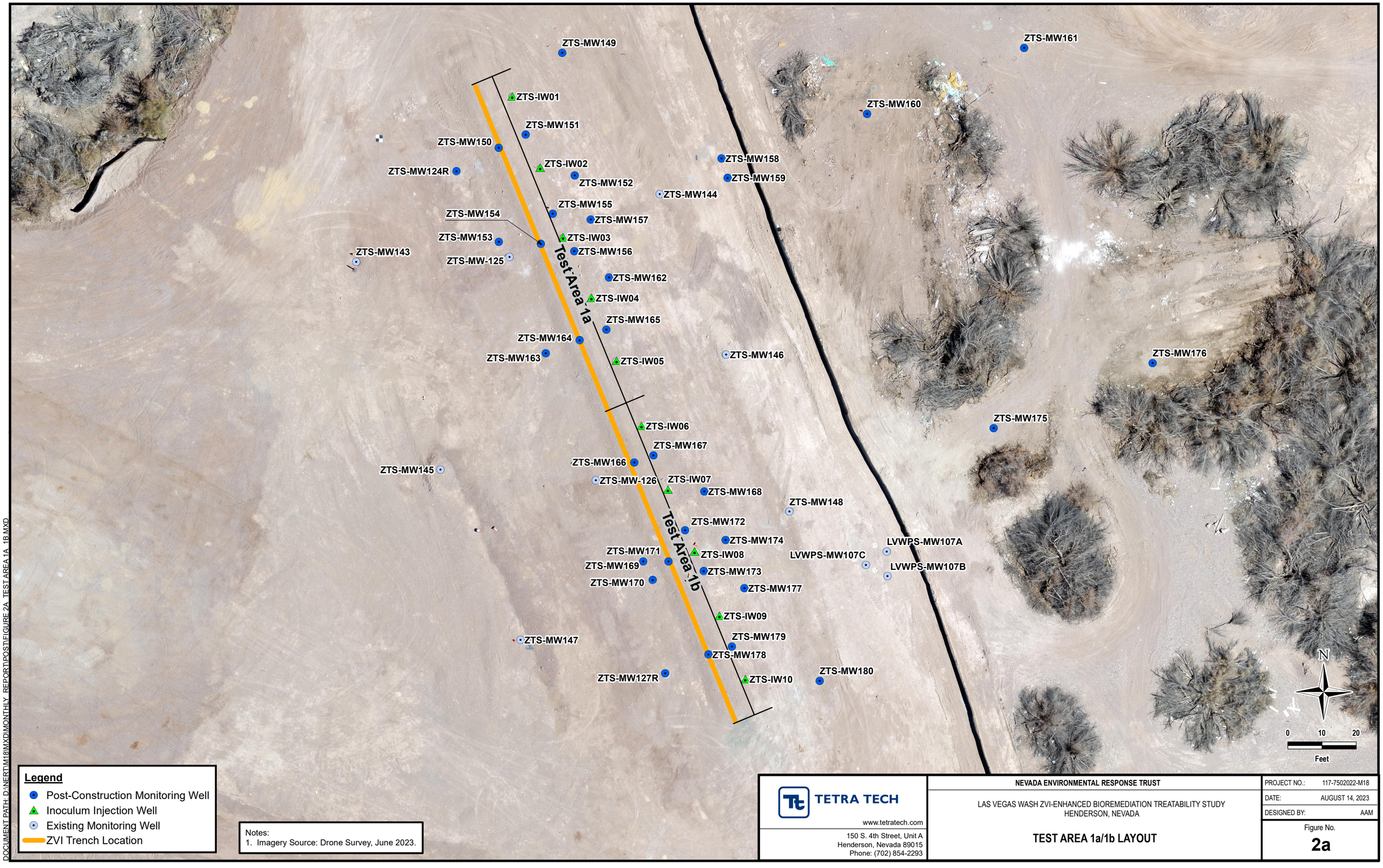
LAS VEGAS WASH ZVI-ENHANCED BIOREMEDIATION TREATABILITY STUDY
HENDERSON, NEVADA

TREATABILITY STUDY LAYOUT

PROJECT NO.:	117-7502022-M18
DATE:	AUGUST 14, 2023
DESIGNED BY:	AAM

Figure No.
1

DRAFT



Legend

- Post-Construction Monitoring Well
- Inoculum Injection Well
- Existing Monitoring Well
- ZVI Trench Location

Notes:
1. Imagery Source: Drone Survey, June 2023.

DOCUMENT PATH: D:\NERT\M18\MXD\MONTHLY_REPORT\POST\FIGURE 2A_TEST AREA 1A_1B.MXD

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NEVADA ENVIRONMENTAL RESPONSE TRUST

LAS VEGAS WASH ZVI-ENHANCED BIOREMEDIATION TREATABILITY STUDY
HENDERSON, NEVADA

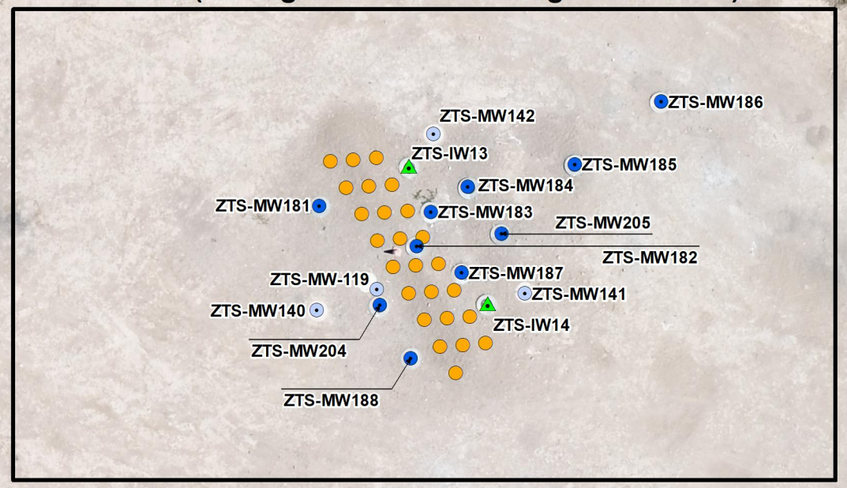
TEST AREA 1a/1b LAYOUT

PROJECT NO.:	117-7502022-M18
DATE:	AUGUST 14, 2023
DESIGNED BY:	AAM

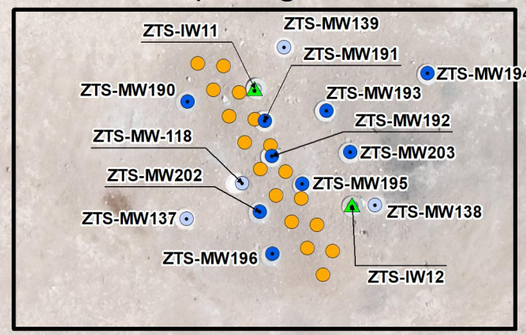
Figure No.
2a

DRAFT

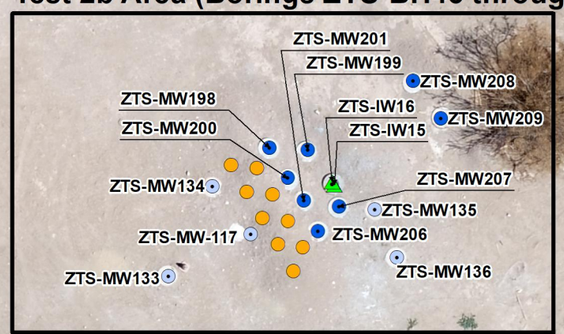
Test 2c Area (Borings ZTS-BH01 through ZTS-BH25)



Test 2a Area (Borings ZTS-BH26 through ZTS-BH42)



Test 2b Area (Borings ZTS-BH43 through ZTS-BH51)



ZTS-MW189

ZTS-MW197

ZTS-MW113

LVWPS-MW102B

LVWPS-MW102A

N

0 10 20

Feet

Legend

- Post-Construction Monitoring Well
- Inoculum Injection Well
- ZVI Boring
- Existing Monitoring Well

Notes:
1. Imagery Source: Drone Survey, June 2023.

DOCUMENT PATH: D:\NERT\M18\MXD\MONTHLY_REPORT\POST\FIGURE 2B_TEST AREA 2A_2B_2C.MXD

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NEVADA ENVIRONMENTAL RESPONSE TRUST

LAS VEGAS WASH ZVI-ENHANCED BIOREMEDIATION TREATABILITY STUDY
HENDERSON, NEVADA

TEST AREA 2a/2b/2c LAYOUT

PROJECT NO.:	117-7502022-M18
DATE:	AUGUST 14, 2023
DESIGNED BY:	AAM

Figure No.
2b

Tables

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Table 1
Well Construction Details
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well ID	Screened Lithology	Northing	Easting	Ground Surface Elevation	Top of Casing Elevation	Depth to Water[1]	Groundwater Elevation	Casing Material	Slot Size	Filter Pack Gradation	Nominal Borehole Diameter	Borehole Total Depth	Well Diameter	Nominal Screen Length	Well Total Depth	Bottom of Screen	Top of Screen
				feet amsl	feet amsl	ft bTOC	amsl		inches		inches	feet bgs	inches	feet	feet bgs	feet bgs	feet bgs
Test Area 1A																	
ZTS-MW124R	Alluvium	26732932.91	833021.97	1545.35	1545.24	16.94	1528.30	Schedule 40 PVC	0.020	#3	8	35.0	4	10.0	34.5	34.0	24.5
ZTS-MW125	UMCf	26732907.80	833037.00	1546.94	1546.51	17.84	1528.67	Schedule 40 PVC	0.010	#2/16	8	75	4	10	50.5	50	40
ZTS-MW143	Alluvium	26732906.40	832992.60	1545.04	1544.90	16.13	1528.77	Schedule 40 PVC	0.020	#3	6	35	2	10	33.5	33	23
ZTS-MW144	Alluvium	26732926.25	833081.32	1544.47	1544.52	16.85	1527.67	Schedule 40 PVC	0.020	#3	6	40	2	10	34.5	34	24
ZTS-MW149	Alluvium	26732967.42	833052.83	1544.31	1544.20	16.38	1527.82	Schedule 40 PVC	0.020	#3	6	35.0	2	10.0	33.5	33.0	23.3
ZTS-MW150	Alluvium	26732939.76	833034.23	1546.83	1546.74	18.70	1528.04	Schedule 40 PVC	0.020	#3	6	45.0	2	10.0	34.5	34.0	24.3
ZTS-MW151	Alluvium	26732943.59	833042.18	1545.72	1545.62	17.75	1527.87	Schedule 40 PVC	0.020	#3	6	37.5	2	10.0	34.5	34.0	24.3
ZTS-MW152	Alluvium	26732931.70	833056.48	1545.63	1545.50	17.81	1527.69	Schedule 40 PVC	0.020	#3	6	35.0	2	10.0	33.5	33.0	23.3
ZTS-MW153	Alluvium	26732912.34	833034.31	1545.73	1545.61	17.38	1528.23	Schedule 40 PVC	0.020	#3	6	40.0	2	10.0	34.5	34.0	24.3
ZTS-MW154	Alluvium	26732911.74	833046.57	1546.73	1546.62	18.72	1527.90	Schedule 40 PVC	0.020	#3	6	42.5	2	10.0	32.5	32.0	22.3
ZTS-MW155	Alluvium	26732920.46	833050.08	1545.97	1545.89	18.18	1527.71	Schedule 40 PVC	0.020	#3	6	40.0	2	15.0	35.5	35.0	20.3
ZTS-MW156	UMCf	26732909.63	833056.38	1546.34	1546.30	18.52	1527.78	Schedule 40 PVC	0.010	#2/16	6	55.0	2	10.0	54.0	53.5	43.8
ZTS-MW157	Alluvium	26732918.81	833061.15	1545.95	1545.87	18.21	1527.66	Schedule 40 PVC	0.020	#3	6	35.0	2	10.0	33.5	33.0	23.3
ZTS-MW158	Alluvium	26732936.67	833099.40	1544.15	1544.09	16.70	1527.39	Schedule 40 PVC	0.020	#3	6	35.0	2	10.0	33.5	33.0	23.3
ZTS-MW159	UMCf	26732930.97	833101.22	1544.36	1544.08	16.83	1527.25	Schedule 40 PVC	0.010	#2/16	6	50.0	48	10.0	49.0	48.5	38.8
ZTS-MW160	Alluvium	26732949.66	833141.96	1544.42	1544.11	16.86	1527.25	Schedule 40 PVC	0.020	#3	6	40.0	2	10.0	33.5	33.0	23.3
ZTS-MW161	Alluvium	26732968.87	833187.88	1544.23	1543.99	17.03	1526.96	Schedule 40 PVC	0.020	#3	6	45.0	2	10.0	34.5	34.0	24.3
ZTS-MW162	Alluvium	26732901.90	833066.48	1545.76	1545.61	17.94	1527.67	Schedule 40 PVC	0.020	#3	6	40.0	2	10.0	33.5	33.0	23.3
ZTS-MW163	Alluvium	26732879.80	833048.04	1546.23	1546.18	19.05	1527.13	Schedule 40 PVC	0.020	#3	6	40.0	2	10.0	34.5	34.0	24.3
ZTS-MW164	Alluvium	26732883.65	833057.93	1547.06	1546.96	17.90	1529.06	Schedule 40 PVC	0.020	#3	6	40.0	2	10.0	32.5	32.0	22.3
ZTS-MW165	Alluvium	26732886.70	833065.74	1545.63	1545.50	17.83	1527.67	Schedule 40 PVC	0.020	#3	6	38.0	2	10	32.5	32.0	22.3
Between Test Area 1A and Test Area 1B																	
ZTS-MW145	UMCf	26732845.93	833017.26	1547.43	1547.13	18.20	1528.93	Schedule 40 PVC	0.010	#2/16	8	50	4	10	49.5	49	39
ZTS-MW146	UMCf	26732879.40	833100.75	1548.63	1547.33	19.60	1527.73	Schedule 40 PVC	0.010	#2/16	8	55	4	10	51.5	51	41
Test Area 1B																	
ZTS-MW126	Alluvium	26732842.82	833063.07	1548.61	1548.47	19.35	1529.12	Schedule 40 PVC	0.020	#3	8	40	4	10	30.5	30	20
ZTS-MW127R	Alluvium	26732786.41	833082.92	1548.26	1548.18	19.80	1528.38	Schedule 40 PVC	0.020	#3	8	24.0	4	5.0	23.5	23.0	18.5
ZTS-MW147	Alluvium	26732796.25	833040.66	1547.65	1547.18	18.28	1528.90	Schedule 40 PVC	0.020	#3	6	35	2	10	30.0	29.5	19.5
ZTS-MW148	Alluvium	26732833.56	833119.27	1548.62	1548.41	20.49	1527.92	Schedule 40 PVC	0.020	#3	6	35	2	10	32.5	32.0	22.0
ZTS-MW166	Alluvium	26732847.93	833073.86	1548.22	1548.25	20.30	1527.95	Schedule 40 PVC	0.020	#3	6	38.0	2	10	30.0	29.5	19.8
ZTS-MW167	Alluvium	26732850.05	833079.50	1547.37	1547.33	19.43	1527.90	Schedule 40 PVC	0.020	#3	6	40.0	2	10.0	33.5	33.0	23.3
ZTS-MW168	Alluvium	26732839.48	833094.36	1547.52	1547.63	19.78	1527.85	Schedule 40 PVC	0.020	#3	6	32.0	2	10.0	30.5	30.0	20.3
ZTS-MW169	Alluvium	26732819.11	833076.48	1547.70	1547.57	19.44	1528.13	Schedule 40 PVC	0.020	#3	6	27.5	2	10.0	27.5	27.0	17.1
ZTS-MW170	UMCf	26732813.68	833079.28	1547.58	1547.45	19.32	1528.13	Schedule 40 PVC	0.010	#2/16	6	46.5	2	10.0	41.5	41.0	31.1
ZTS-MW171	Alluvium	26732819.11	833083.89	1548.61	1548.53	20.33	1528.20	Schedule 40 PVC	0.020	#3	6	35.0	2	10.0	29.5	29.0	19.3
ZTS-MW172	Alluvium	26732828.15	833088.77	1547.91	1547.74	19.77	1527.97	Schedule 40 PVC	0.020	#3	6	30.0	2	10.0	27.5	27.0	17.3
ZTS-MW173	UMCf	26732816.29	833094.22	1547.95	1547.78	19.77	1528.01	Schedule 40 PVC	0.010	#2/16	6	46.0	2	10.0	43.5	43.0	33.3
ZTS-MW174	Alluvium	26732825.33	833100.64	1548.30	1548.11	20.20	1527.91	Schedule 40 PVC	0.020	#3	6	31.5	2	10.0	30.0	29.5	19.8
ZTS-MW175	Alluvium	26732857.97	833178.91	1546.18	1546.25	19.24	1527.01	Schedule 40 PVC	0.020	#3	6	61.5	2	10.0	30.0	29.5	19.8
ZTS-MW176	Alluvium	26732876.92	833225.42	1543.90	1543.74	17.04	1526.70	Schedule 40 PVC	0.020	#3	6	32.0	2	10.0	30.0	29.5	19.8
ZTS-MW177	Alluvium	26732811.29	833106.07	1548.22	1548.12	20.17	1527.95	Schedule 40 PVC	0.020	#3	6	31.0	2	10.0	30.5	30.0	20.3
ZTS-MW178	Alluvium	26732791.95	833095.60	1549.21	1549.14	20.91	1528.23	Schedule 40 PVC	0.020	#3	6	34.0	2	10.0	28.0	27.5	17.8
ZTS-MW179	Alluvium	26732794.26	833102.47	1548.62	1548.45	20.23	1528.22	Schedule 40 PVC	0.020	#3	6	27.5	2	5.0	23.5	23.0	18.3
ZTS-MW180	Alluvium	26732784.25	833128.08	1548.42	1548.12	20.21	1527.91	Schedule 40 PVC	0.020	#3	6	25.0	2	5.0	23.0	22.5	17.8
LVWPS-MW107A	Alluvium	26732823.90	833144.18	1548.14	1547.58	19.96	1527.62	Schedule 40 PVC	0.020	#3	8	35.5	4	10	35.0	34.5	24.8
LVWPS-MW107B	UMCf	26732816.68	833144.44	1548.20	1547.82	16.61	1531.21	Schedule 40 PVC	0.010	#2/12	8	67.0	4	20	66.3	65.8	46.0
LVWPS-MW107C	UMCf (Semi-Cons)	26732819.93	833138.10	1548.33	1547.93	5.81	1542.12	Schedule 40 PVC	0.010	#2/12	6	121.0	2	20	120.5	120.0	100.3

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Table 1
Well Construction Details
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well ID	Screened Lithology	Northing	Easting	Ground Surface Elevation	Top of Casing Elevation	Depth to Water[1]	Groundwater Elevation	Casing Material	Slot Size	Filter Pack Gradation	Nominal Borehole Diameter	Borehole Total Depth	Well Diameter	Nominal Screen Length	Well Total Depth	Bottom of Screen	Top of Screen
				feet amsl	feet amsl	ft bTOC	amsl		inches		inches	feet bgs	inches	feet	feet bgs	feet bgs	feet bgs
Test Area 2A																	
ZTS-MW118	Alluvium	26732588.00	832939.61	1547.64	1547.41	16.34	1531.07	Schedule 40 PVC	0.020	#3	8	40	4	10	24	23.5	13.5
ZTS-MW137	Alluvium	26732584.41	832934.77	1547.68	1547.44	16.36	1531.08	Schedule 40 PVC	0.020	#3	6	28	2	10	24.5	24	14
ZTS-MW138	Alluvium	26732585.74	832953.21	1547.68	1547.35	16.37	1530.98	Schedule 40 PVC	0.020	#3	6	25	2	10	24.5	24	14
ZTS-MW139	Alluvium	26732601.13	832944.31	1547.36	1547.07	16.17	1530.90	Schedule 40 PVC	0.020	#3	6	30	2	10	23.5	23	13
ZTS-MW190	Alluvium	26732595.87	832934.90	1547.59	1547.32	16.32	1531.00	Schedule 40 PVC	0.020	#3	6	25.0	2	10.0	25.5	24.0	14.3
ZTS-MW191	Alluvium	26732593.97	832942.42	1548.18	1547.93	17.00	1530.93	Schedule 40 PVC	0.020	#3	6	30.0	2	10.0	25.0	24.5	14.8
ZTS-MW192	Alluvium	26732590.54	832943.15	1548.28	1548.11	17.16	1530.95	Schedule 40 PVC	0.020	#3	6	25.0	2	10.0	24.5	24.0	14.3
ZTS-MW193	Alluvium	26732594.97	832948.47	1547.64	1547.48	16.62	1530.86	Schedule 40 PVC	0.020	#3	6	25.0	2	10.0	23.8	23.3	13.6
ZTS-MW194	Alluvium	26732598.62	832958.35	1547.33	1547.38	16.65	1530.73	Schedule 40 PVC	0.020	#3	6	25.0	2	5.0	23.0	22.5	17.8
ZTS-MW195	Alluvium	26732587.81	832946.10	1548.38	1548.14	17.20	1530.94	Schedule 40 PVC	0.020	#3	6	25.0	2	10.0	24.5	24.0	14.3
ZTS-MW196	Alluvium	26732581.00	832943.16	1547.81	1547.34	16.29	1531.05	Schedule 40 PVC	0.020	#3	6	25.0	2	10.0	24.0	23.5	13.8
ZTS-MW197	Alluvium	26732619.07	832992.11	1547.27	1546.99	16.97	1530.02	Schedule 40 PVC	0.020	#3	6	25.0	2	10.0	23.0	22.5	12.8
ZTS-MW202	UMCf	26732585.08	832941.97	1547.83	1547.46	16.48	1530.98	Schedule 40 PVC	0.010	#2/16	6	40.0	2	10.0	39.0	38.5	28.8
ZTS-MW203	UMCf	26732590.95	832950.78	1547.77	1547.71	16.90	1530.81	Schedule 40 PVC	0.010	#2/16	6	45.0	2	10.0	38.5	38.0	28.3
LVWPS-MW102A	UMCf	26732606.35	832965.93	1547.23	1546.82	10.40	1536.42	Schedule 40 PVC	0.010	#2/12	6	67.5	2	20	67.1	66.6	47.0
LVWPS-MW102B	UMCf (Semi-Cons)	26732605.06	832973.68	1547.14	1546.78	4.77	1542.01	Schedule 40 PVC	0.010	#2/12	6	120.0	2	20	97.0	96.5	76.8
Test Area 2B																	
ZTS-MW117	UMCf	26732546.84	832964.21	1547.64	1547.32	14.75	1532.57	Schedule 40 PVC	0.010	#2/16	8	75	4	15	56	55.5	40.5
ZTS-MW133	UMCf	26732542.30	832957.28	1547.79	1547.51	11.11	1536.40	Schedule 40 PVC	0.010	#2/16	6	75	2	15	69.5	69	54
ZTS-MW134	UMCf	26732551.09	832961.57	1547.75	1547.54	16.31	1531.23	Schedule 40 PVC	0.010	#2/16	6	37	2	10	36.5	36	26
ZTS-MW135	UMCf	26732548.80	832977.51	1547.56	1547.42	10.76	1536.66	Schedule 40 PVC	0.010	#2/16	6	76	2	15	69.5	69	54
ZTS-MW136	UMCf	26732544.12	832979.70	1547.67	1547.29	16.01	1531.28	Schedule 40 PVC	0.010	#2/16	6	55	2	20	47.5	47	27
ZTS-MW198	UMCf	26732554.83	832967.16	1547.78	1547.69	16.64	1531.05	Schedule 40 PVC	0.010	#2/16	6	47.5	2	20.0	46.5	46.0	26.1
ZTS-MW199	UMCf	26732554.62	832970.93	1547.18	1546.84	10.53	1536.31	Schedule 40 PVC	0.010	#2/16	6	68.0	2	15.0	65.5	65.0	50.1
ZTS-MW200	UMCf	26732551.89	832968.94	1547.67	1547.57	11.41	1536.16	Schedule 40 PVC	0.010	#2/16	6	68.0	2	15.0	65.5	65.0	50.1
ZTS-MW201	UMCf	26732549.70	832970.52	1547.59	1547.29	16.03	1531.26	Schedule 40 PVC	0.010	#2/16	6	50.0	2	20.0	47.5	47.0	27.1
ZTS-MW206	UMCf	26732546.67	832971.91	1547.58	1547.61	11.34	1536.27	Schedule 40 PVC	0.010	#2/16	6	70.0	2	15.0	65.5	65.0	50.1
ZTS-MW207	UMCf	26732549.09	832973.98	1547.48	1547.43	16.33	1531.10	Schedule 40 PVC	0.010	#2/16	6	48.0	2	20.0	46.5	46.0	26.1
ZTS-MW208	UMCf	26732561.34	832981.27	1547.35	1547.21	16.41	1530.80	Schedule 40 PVC	0.010	#2/16	6	48.0	2	20.0	46.5	46.0	26.1
ZTS-MW209	UMCf	26732557.71	832983.97	1547.62	1547.30	11.00	1536.30	Schedule 40 PVC	0.010	#2/16	6	69.0	2	15.0	66.0	65.5	50.6
Test Area 2C																	
ZTS-MW119	Alluvium	26732634.25	832912.06	1547.46	1547.12	16.38	1530.74	Schedule 40 PVC	0.020	#3	8	37.5	4	10	25.5	25	15
ZTS-MW140	Alluvium	26732631.52	832907.03	1547.30	1546.73	15.94	1530.79	Schedule 40 PVC	0.020	#3	6	30	2	10	26.0	25.5	15.5
ZTS-MW141	Alluvium	26732633.15	832927.38	1547.65	1547.39	16.70	1530.69	Schedule 40 PVC	0.020	#3	6	30	2	10	25.0	24.5	14.5
ZTS-MW142	Alluvium	26732648.69	832918.45	1547.42	1546.81	16.21	1530.60	Schedule 40 PVC	0.020	#3	6	27	2	10	26.5	26	16
ZTS-MW181	Alluvium	26732641.70	832907.27	1547.62	1547.25	16.67	1530.58	Schedule 40 PVC	0.020	#3	6	27.5	2	10.0	27.5	27.0	17.3
ZTS-MW182	Alluvium	26732637.76	832916.80	1548.07	1547.79	17.17	1530.62	Schedule 40 PVC	0.020	#3	6	35.0	2	10.0	27.8	27.3	17.6
ZTS-MW183	Alluvium	26732641.13	832918.19	1547.72	1547.58	17.00	1530.58	Schedule 40 PVC	0.020	#3	6	28.0	2	10.0	27.5	27.0	17.3
ZTS-MW184	Alluvium	26732643.60	832921.80	1547.60	1547.53	17.02	1530.51	Schedule 40 PVC	0.020	#3	6	27.5	2	10.0	26.5	26.0	16.3
ZTS-MW185	Alluvium	26732645.77	832932.26	1547.59	1547.60	17.11	1530.49	Schedule 40 PVC	0.020	#3	6	27.5	2	10.0	25.5	25.0	15.3
ZTS-MW186	Alluvium	26732651.85	832940.71	1547.27	1547.26	16.87	1530.39	Schedule 40 PVC	0.020	#3	6	27.0	2	10.0	25.5	25.0	15.3
ZTS-MW187	Alluvium	26732635.16	832921.20	1547.70	1547.25	16.70	1530.55	Schedule 40 PVC	0.020	#3	6	28.0	2	10.0	25.5	25.0	15.3
ZTS-MW188	Alluvium	26732626.83	832916.22	1547.30	1546.93	16.25	1530.68	Schedule 40 PVC	0.020	#3	6	27.5	2	10.0	27.5	27.0	17.3
ZTS-MW189	Alluvium	26732654.00	832963.19	1547.16	1547.14	16.98	1530.16	Schedule 40 PVC	0.020	#3	6	27.5	2	10.0	23.5	23.0	12.8
ZTS-MW204	UMCf	26732632.00	832913.21	1547.40	1546.87	16.35	1530.52	Schedule 40 PVC	0.010	#2/16	6	42.5	2	10.0	40.5	40.0	30.3
ZTS-MW205	UMCf	26732638.98	832925.09	1547.61	1547.30	17.00	1530.30	Schedule 40 PVC	0.010	#2/16	6	42.5	2	10.0	40.5	40.0	30.3
General Vicinity																	
ZTS-MW116	UMCf	26732461.29	833014.94	1548.45	1547.92	16.31	1531.61	Schedule 40 PVC	0.010	#2/16	6	55	2	15	48.5	48	33
ZTS-MW128	UMCf	26732659.68	833137.95	1555.83	1555.41	26.67	1528.74	Schedule 40 PVC	0.010	#2/16	6	75	2	10	52.5	52	42

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Table 1
Well Construction Details
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well ID	Screened Lithology	Northing	Easting	Ground Surface Elevation	Top of Casing Elevation	Depth to Water[1]	Groundwater Elevation	Casing Material	Slot Size	Filter Pack Gradation	Nominal Borehole Diameter	Borehole Total Depth	Well Diameter	Nominal Screen Length	Well Total Depth	Bottom of Screen	Top of Screen
				feet amsl	feet amsl	ft bTOC	amsl		inches		inches	feet bgs	inches	feet	feet bgs	feet bgs	feet bgs
Injection Wells																	
ZTS-IW01	Alluvium	26732954.69	833038.19	1545.73	1545.62	NM	NM	Schedule 40 PVC	0.020	#3	6	40.0	2	15.0	36.0	35.5	20.8
ZTS-IW02	Alluvium	26732933.88	833046.37	1545.63	1545.70	NM	NM	Schedule 40 PVC	0.020	#3	6	37.5	2	15.0	35.5	35.0	20.3
ZTS-IW03	Alluvium	26732913.63	833053.06	1546.39	1546.35	NM	NM	Schedule 40 PVC	0.020	#3	6	40.0	2	15.0	36.0	35.5	20.8
ZTS-IW04	Alluvium	26732895.95	833061.35	1545.81	1545.64	NM	NM	Schedule 40 PVC	0.020	#3	6	38.0	2	15.0	36.0	35.5	20.8
ZTS-IW05	Alluvium	26732877.62	833068.66	1546.34	1546.32	NM	NM	Schedule 40 PVC	0.020	#3	6	37.5	2	15.0	36.0	35.5	20.8
ZTS-IW06	Alluvium	26732858.63	833075.96	1547.14	1546.96	NM	NM	Schedule 40 PVC	0.020	#3	6	35.0	2	15.0	35.0	34.5	19.8
ZTS-IW07	Alluvium	26732840.03	833083.70	1547.73	1547.48	NM	NM	Schedule 40 PVC	0.020	#3	6	30.0	2	5.0	27.5	27.0	22.3
ZTS-IW08	Alluvium	26732822.00	833091.44	1547.88	1547.75	NM	NM	Schedule 40 PVC	0.020	#3	6	31.0	2	5.0	27.5	27.0	22.3
ZTS-IW09	Alluvium	26732803.17	833098.78	1548.14	1548.30	NM	NM	Schedule 40 PVC	0.020	#3	6	27.0	2	5.0	26.5	26.0	21.3
ZTS-IW10	Alluvium	26732784.72	833106.32	1548.63	1548.48	NM	NM	Schedule 40 PVC	0.020	#3	6	25.0	2	5.0	25.0	24.5	19.8
ZTS-IW11	Alluvium	26732597.13	832941.47	1547.80	1547.86	NM	NM	Schedule 40 PVC	0.020	#3	6	25.0	2	5.0	23.5	23.0	18.3
ZTS-IW12	Alluvium	26732585.78	832951.00	1547.51	1547.54	NM	NM	Schedule 40 PVC	0.020	#3	6	26.0	2	5.0	25.0	24.5	19.8
ZTS-IW13	Alluvium	26732645.58	832916.08	1547.54	1547.64	NM	NM	Schedule 40 PVC	0.020	#3	6	30.0	2	10.0	29.5	29.0	19.3
ZTS-IW14	Alluvium	26732632.18	832923.75	1547.50	1547.55	NM	NM	Schedule 40 PVC	0.020	#3	6	30.0	2	10.0	27.3	26.8	17.1
ZTS-IW15	UMCf	26732551.24	832973.58	1547.33	1547.34	NM	NM	Schedule 40 PVC	0.010	#2/16	10	68.0	2	15.0	46.5	46.0	26.3
ZTS-IW16	UMCf	26732551.53	832973.34	1547.37	1547.44	NM	NM	Schedule 40 PVC	0.010	#2/16			2	20.0	67.5	67.0	52.3

Notes
amsl - above mean sea level
bgs - below ground surface
bTOC - below top of casing
NM - not measured
PVC - polyvinyl chloride
UMCf - Upper Muddy Creek formation
Semi-Cons - Semi-Consolidated
1. Depth to water collected on May 16-17, 2023.

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Test Area 1A																
Pre-Construction Baseline Results																
ZTS-MW143	10/18/2022	N	BL02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	4,300	45,000	<7,060	919,000	<1,280	16,800	<840	2,520,000
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	3,730	36,200	----	----	----	16,500	----	2,440,000
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	3,690	36,900	----	----	----	16,300	----	2,460,000
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	3,930	36,800	<7,060	872,000	<1,280	16,700	<840	2,450,000
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	3,970	37,200	<7,060	864,000	<1,280	16,600	<840	2,430,000
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	2,890	23,400	----	----	----	12,600	----	2,210,000
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	93	<2,400	<353 R	750,000	1,040	349	<42	1,210,000
ZTS-MW125	10/24/2022	FD	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	----	----
ZTS-MW144	10/18/2022	N	BL02	1A	Downgradient	35	Alluvium	24.0 - 34.0	5,590	41,300	<7,060	1,100,000	<1,280	16,100	<840	2,520,000
Post-Construction Performance Monitoring Results																
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	4,340	22,400	<7,060	982,000	<1,280	13,000 J-	<840 R	2,510,000
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	4,000	26,600	<7,060	1,060,000	<1,280	17,400	<840	2,430,000
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	6,090	27,700	4,050 J	1,030,000	<640	14,900	<420	2,480,000
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	6,280	54,200	<3,530	1,010,000	885 J	15,500	2,270	2,600,000
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	4,790	47,600	<3,530	1,020,000	1,000 J	26,500	<420	2,360,000
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	4,460	16,600	<3,530	819,000	<640	13,100 J-	<420 R	2,280,000
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	3,980	20,500	<7,060	875,000	<1,280	16,600	<840	2,160,000
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	4,960	31,600	<3,530	1,000,000	<640	16,800	<420	2,340,000
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	5,120	52,200	<3,530	1,060,000	757 J	34,800	<420	2,280,000
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	3,920	42,100	<3,530	878,000	1,370 J	20,000 J-	<420 R	2,330,000
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	173	698 J-	5,540 J	701,000	1,200 J	<480 R	<420 R	1,140,000
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	1,110	4,370 J	<3,530	758,000	1,090 J	7,750	<420	1,380,000
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	1,270	7,270	<3,530	705,000	<640	4,050 J	<420 R	1,250,000
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	604	12,000	<353	748,000	804	5,780	<42	1,170,000
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	933	11,200	<35,300	683,000	9,110 J	7,230 J	<4,200	1,190,000
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	3,880	18,100	<3,530	863,000	<640	13,100 J-	<420 R	2,360,000
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	4,030	21,400	<3,530	912,000	<640	22,000	<420	2,130,000
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	5,540	29,100	<3,530	874,000	<640	14,400 J-	<420 R	1,860,000
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	5,500	51,100	<3,530	1,020,000	940 J	23,900	<420	2,260,000
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	4,420	44,800	<3,530	919,000	1,160 J	19,800	<42	2,270,000
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	3,320 J	19,200	<3,530	925,000	<640	16,600	<420	2,480,000
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	4,010	23,400	<3,530	889,000	<640	21,300 J-	<420	2,070,000
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	4,380	34,000	<3530 UJ	962,000	<640	16,000 J-	<420 R	2,410,000
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	4,770	53,900	<3,530	1,020,000	903 J	26,000	<420	2,260,000
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	4,620	47,000	<3,530	925,000	966 J	15,300 J-	91.7 J	2,350,000
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,580	315	<3,530	829,000	<640	1,110	<420	2,140,000
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	1,200	<24	4,520 J	836,000	689 J	3,060 J+	<420	2,040,000
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	1,760	26,000	<3,530	985,000	<640	2,270	<420	2,330,000
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	3,040	15,400	5,570 J	1,070,000	745 J	12,300	5,910	2,690,000
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,860	10,700	<3,530	888,000	656 J	<480	<420	2,190,000
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,020	<480	<3,530	917,000	<640	<480 UJ	<420 UJ	2,330,000
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,460	<2,400	4,520 J	929,000	723 J	<480	<420	2,130,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,060	<240	4,150 J	1,060,000	1,050 J	14,900	<420	2,290,000
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,550	<240	<3,530	964,000	<640	<480 UJ	1,200 J-	2,130,000 J+
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,210	8,260	5,250 J	940,000	1,320 J	<480	<420	2,300,000
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,740	2,550	<3,530	904,000	<640	1,370	<420	2,400,000
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,760 J-	3,060	<3,530	911,000	<640	1,300	<420	2,370,000
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,210	2,210 J-	<3,530	946,000	<640	11,400 J-	<420 UJ	2,240,000
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,360	2,550 J-	<3,530	937,000	<640	10,900 J-	<420 UJ	2,230,000
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,700	31,500	<3,530	1,050,000	<640	4,480	<420	2,490,000
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,880	35,700	<3,530	1,020,000	<640	4,600	<420	2,410,000
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,560	18,700	<3,530	1,020,000	<640	5,720 J	1,190 J-	2,280,000 J+
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,500	19,300	<3,530	994,000	<640	5,490 J	1,180 J-	2,150,000 J+
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,910	8,520	<3,530	965,000	665 J	<480	<420	2,340,000
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,850	8,600	7,370 J	966,000	831 J	<480	<420	2,340,000
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	3,600	8,050	<3,530	958,000	<640	4,040	<420	2,490,000
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	4,230	9,630	8,700 J	897,000	<1,280	7,660 J+	<840	2,320,000
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	4,700	64,200	3,980 J	1,010,000	1,280 J	9,420	3,070	2,310,000
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	5,970	39,100	<3,530	1,000,000	<640	9,790 J-	2,280 J-	2,340,000 J+
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	4,480	40,400	<3,530	1,030,000	750 J	28,200	<420	2,270,000
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	3,690	3,260	<3,530	977,000	658	632 J	<420 UJ	2,480,000
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	3,590	3,160	<3,530	982,000	644	636 J	<420 UJ	2,620,000
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	4,530	36,700	<3,530	1,030,000	<640	8,330	<420	2,300,000
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	4,710	35,300	<3,530	1,040,000	<640	8,360	<420	2,310,000
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	5,570	11,100	3,990 J	949,000	1,280 J	6,140	2,280	2,050,000
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	7,240	11,300	4,030 J	1,090,000	1,140 J	7,890	2,490	2,350,000
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	6,350	44,800	<3,530	1,060,000	858 J	11,200	2,870 J	2,380,000
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	6,270	44,400	<3,530	1,050,000	915 J	11,100	1,700 J	2,340,000
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	4,530	30,500 J	<35,300	945,000	<6,400	14,700 J-	<4200 R	2,120,000
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	4,490	12,600 J	<35,300	936,000	<6,400	15,400 J-	<4200 R	2,110,000
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.3	<24 UJ	<3,530	756,000	1,000	<480 UJ	<420 UJ	1,150,000
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	94.4	249 J-	<3,530	792,000	<640	1,230	<420	1,190,000
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	34.4	<240	<353	782,000	816	<48	<42	1,390,000
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	273	11,500	<3,530	808,000	1,120 J	6,420 J+	<420	1,300,000
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	1,560	22,700	<3,530	732,000	1,060 J	12,200	<4,200	1,400,000
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	3,900	6,340	<3,530	<3,790	<640	<480 R	<420 R	<5,940
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	4,580	57,400	4,450 J	973,000	827 J	12,000	<420	2,070,000
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	5,320	85,500	4,060 J	1,040,000	1,400 J	17,700	2,430	2,380,000
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	4,970	47,800	<3,530	998,000	1,040 J	24,400	5,950	2,310,000
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	5,280	42,800	<35,300	885,000	9,420 J	22,600	5,470 J	2,290,000
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	3,980	7,050	<3,530	970,000	<640	4,020	<420	2,450,000
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	4,200	38,600	<3,530	992,000	<640	9,300	<420	2,300,000
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,700	17,200	3,990 J	1,090,000	1,160 J	15,400	2,350	2,360,000
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,080	40,500	8,060 J	1,010,000	829 J	14,500 J-	5,470 J-	2,160,000 J+
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	4,520	39,800	<3,530	1,020,000	839 J	14,600	<420	2,280,000
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	3,530	3,400	<3,530	1,040,000	<640	2,320	500 J	2,430,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	4,530	7,770	<3,530	993,000	<640	5,470	<420	1,960,000
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	3,420 J	51,700 J+	<3,530	1,030,000	<640	8,740	577 J	2,840,000
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,760	45,400	<3,530	1,070,000	843 J	12,300	2,280	2,430,000
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	4,540	30,600	<35,300	901,000	10,100 J	12,600	<4,200	2,010,000
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,160	6,700	<3,530	1,010,000	<640	2,350 J-	<420 R	2,520,000
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	4,580	12,400	<3,530	963,000	<640	18,600 J-	<420 UJ	2,380,000
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,970	83,800	4,020 J	966,000	1,300 J	16,000	2,160	2,260,000
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	6,340	67,400	<3,530	1,080,000	907 J	27,000	5,770	2,470,000
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,290	40,900	<3,530	994,000	1,370 J	15,700 J-	<420 R	2,430,000
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	3,300	14,300	<3,530	944,000	<640	3,190 J-	<420 R	2,420,000
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	3,510	54,500	<3,530	707,000	<640	13,900	<420	1,850,000
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	4,660	89,600	4,010 J	973,000	1,180 J	19,100	<420	2,430,000
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	5,740	49,000	<3,530	980,000	964 J	23,900	<420	2,140,000
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	4,300	46,100	<3,530	838,000	966 J	21,700	<4,200	1,990,000
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	4,100	4,470	<3,530	1,010,000	<640	2,220 J-	<420 R	2,380,000
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	3,140 J	4,460 J	<3530 R	1,010,000	<640 UJ	4,740	<420	2,230,000
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	4,810	64,300	4,040 J	1,040,000	1,340 J	10,700	<420 R	2,390,000
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	5,310	46,400	<3530 UJ	1,030,000	1,100 J	20,400 J-	<420	2,330,000
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	4,700	30,300	<35,300	933,000	<6400 UJ	12,700 J-	<4200 UJ	2,240,000
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	4,450	2,110	<3,530	1,010,000	684 J	1,940 J-	<420 UJ	2,460,000
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	3,340	38,600	4,510 J	984,000	783 J	4,490	<420	2,070,000
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	4,080	15,800	<3,530	984,000	<640	8,610 J-	424 J	2,410,000
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	5,340	40,000	<3,530	1,080,000	862 J	23,800	<420	2,420,000
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	4,940	30,400	<3,530	1,020,000	803 J	25,300 J-	<420 UJ	2,380,000
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	391	631	<353	654,000	868	222	42.6 J	1,130,000
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	4,290	47,800	4,450 J	900,000	825 J	11,000	<420	1,870,000
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	4,230	17,500	<3,530	965,000	<640	10,600 J-	<420 R	2,140,000
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	4,490	40,600	3,650 J	965,000	818 J	13,400	968 J	2,220,000
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	3,380	30,300	<3,530	875,000	1,390 J	13,300 J-	<420 UJ	1,900,000
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	4,560	9,780	<3,530	924,000	<640	6,110	<420	2,390,000
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	4,810	16,100	4,460 J	937,000	809 J	12,200	<420	2,300,000
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	5,430	26,100	4,100 J	1,060,000	<640	14,500	<420	2,480,000
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	4,830	52,300	3,720 J	1,010,000	966 J	16,300 J-	1,240	2,510,000
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	4,480	41,100	<35300 R	884,000	<6,400	18,700 J	<4200 R	2,160,000
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	3,890	6,370	<3,530	915,000	<640	2,490 J-	<420 R	2,550,000
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	4,310	49,600	<3,530	854,000	<640	9,060 J-	<420 R	1,900,000
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	4,130	47,800	<3,530	930,000	<640	9,760 J-	<420 R	2,100,000
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	4,220	19,300 J	<3,530	1,030,000	<640	10,400 J-	<420 R	2,570,000
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	4,290	64,200 J	<3,530	1,050,000	<640	10,500 J-	<420 R	2,580,000
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	5,410	43,900	<3,530	1,010,000	1,030 J	20,500	<420	2,320,000
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	5,390	39,300	<3,530	1,050,000	1,080 J	21,400	<420	2,470,000
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	4,260	37,600	<3,530	953,000	1,120 J	12,400	<420	2,360,000
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	3,960	35,900	<3,530	963,000	1,120 J	11,900	<420	2,370,000
Between Test Area 1A and Test Area 1B																

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Pre-Construction Baseline Results																
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1,630	14,900 J	<3,530	888,000	<640	4,260	<420	1,860,000
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	2,820	20,600	<3,530	1,080,000	<640	6,590	<420	2,480,000
Post-Construction Performance Monitoring Results																
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	18 J-	<24 UJ	<353	117,000	630	540	<42	238,000
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	58.1	189 J-	<3,530	787,000	906 J	<480	<420	1,500,000
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.3	<120	3,560 J	789,000	<640	2,070 J+	<420	1,470,000
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	196 J-	9,450	5,980 J	676,000	1,080 J	6,310 J	<420	1,290,000
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	81.5	2,230	<3,530	605,000	925 J	<480	<420	1,230,000
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,250	2,490 J-	<7,060	886,000	<1,280	1,710 J	<840 R	2,040,000
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.3	<2,400	<3,530	1,170,000	<640	<480 R	<420 R	2,210,000
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.3	<240	3,950 J	1,070,000	1,610 J-	16,500 J-	<420	1,950,000
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.3	<240	<3,530	1,040,000	1,240 J	<480	<420	2,070,000
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<1.5	<240	<35,300	971,000	9,090 J	<4,800	<4,200	2,140,000
Test Area 1B																
Pre-Construction Baseline Results																
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	7,390	93,300	<7,060	1,140,000	<1,280	18,700	<840	2,550,000
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	6,570	71,300	----	----	----	15,600	----	2,650,000
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	7,210	74,600	<7,060	1,130,000	<1,280	17,100	<840	2,630,000
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	7,450	78,300	<7,060	1,120,000	<1,280	17,000	<840	2,620,000
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	8,260	100,000	----	----	----	19,000	----	2,550,000
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	7,100	98,200	<3,530	1,190,000	<640	20,000	<420	2,650,000
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	7,400	94,800	<3,530	1,150,000	<640	19,300	<420	2,640,000
Post-Construction Performance Monitoring Results																
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	7,000	49,900	<3,530	1,070,000	<640	16,500 J-	<420 R	2,570,000
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	6,690	55,000	<3,530	1,100,000	735 J	24,900	<420	2,540,000
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	5,180	70,400	<3,530	1,080,000	<640	21,500 J-	<420 R	2,600,000
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	6,040	84,400	<3,530	1,030,000	924 J	30,100	<420	2,420,000
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	5,920	79,000	<3,530	999,000	948 J	19,400 J-	<42	2,630,000
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	5,920	17,900	<3,530	980,000	<640	13,900	<420	2,640,000
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	5,830	58,300	4,480 J	974,000	938 J	14,500	<420	2,950,000
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	5,420	105,000	<3,530	1,030,000	<640	16,800	<420	2,620,000
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	6,080	76,700	<3,530	1,040,000	753 J	19,300 J-	2,320 J-	2,610,000
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	6,570	46,400	<35,300	891,000	8,510 J	22,500	<4,200	2,490,000
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	5,880	51,100	<3,530	1,110,000	<640	20,100	<420	2,610,000
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	6,910	57,800	4,560 J	1,040,000	927 J	19,800	<420	2,450,000
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	5,760	119,000	3,620 J	1,060,000	<640	21,400	<420	2,510,000
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	6,130	88,700	<3,530	1,100,000	974 J	21,500 J-	778 J	2,570,000
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	6,140	76,800	<35,300	925,000	9,060 J	27,800	<4,200	2,360,000
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	6,270	54,300	<3,530	1,100,000	<640	16,500	<420	2,490,000
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	7,360	59,300	4,540 J	1,040,000	897 J	19,600	<420	2,410,000
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	5,960	122,000	3,600 J	1,050,000	<640	21,400	<420	2,510,000
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	5,660	81,700	<3,530	1,030,000	717 J	20,800 J-	2,320 J-	2,830,000
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	5,840	82,400	<35,300	941,000	8,560 J	24,200	<4,200	2,390,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	4,570	17,500	<3,530	830,000	775 J	7,310 J-	<420 UJ	1,940,000
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	5,500	24,400	<7,060	947,000	<1,280	12,700	<840	2,090,000
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	4,690	79,300	<3,530	914,000	<640	13,200	<420	2,120,000
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	4,670	54,400	<3,530	935,000	1,120 J	13,800 J-	632 J	2,020,000
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	4,420	39,000	<35,300	836,000	8,940 J	<4,800	<4,200	2,130,000
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	5,850	<240	<3,530	1,130,000	662 J	<480	<420	2,310,000
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	3,090	3,850 J	4,510 J	963,000	765 J	5,530 J+	1,180	2,150,000
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	9,260	<120	4,270 J	1,130,000	1,030 J	19,500	<420	2,450,000
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	5,880	15,800	<3,530	1,050,000	<640	5,100 J	<420 UJ	2,440,000 J+
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	5,880	<240	<3,530	1,080,000	655 J	<480	<420	2,600,000
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	6,260	<120	<3,530	1,130,000	<640	10,200	<420	2,480,000
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	6,080	<2,400	8,920 J	1,090,000	<1,280	7,300 J+	<840	2,480,000
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	5,370	34,300	<3,530	1,100,000	<640	4,430	<420	2,560,000
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	5,290	13,600	5,840 J	1,120,000	861 J	19,900	<420	2,420,000
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	4,890	9,330	<3,530	1,050,000	<640	<480	<420	2,600,000
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	5,500	<480	<3,530	1,140,000	<640	1,200	<420	2,550,000
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	4,870	<2,400	8,960 J	1,100,000	<1,280	<960	<840	2,510,000
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	5,450	<240	<3,530	1,100,000	<640	2,680 J+	<420	2,450,000
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	5,140	<120	<3,530	1,100,000	<640	<480 UJ	1,230 J-	2,270,000 J+
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	4,530	<240	<3,530	939,000	800 J	<4,800	<4,200	2,240,000
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	5,740	<480	<3,530	1,150,000	894 J	<480	<420	2,760,000
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	6,210	636 J-	<3,530	1,130,000	<640	<480	<420	2,430,000
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	7,420	<240	<3,530	1,130,000	<640	2,870 J+	<420	2,480,000
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	5,400	<120	<3,530	1,060,000	711 J	18,200	2,920	2,300,000 J+
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	6,250	<240	60,700 J	977,000	9,080 J	<4,800	7,570 J	2,430,000
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	5,650	<240	<3,530	1,060,000	<640	3,380	<420	2,470,000
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	5,740	<240	<3,530	1,080,000	652 J	3,530	<420	2,430,000
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,590	<48 UJ	<3,530	1,120,000	<640	5,310	<420	2,510,000
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,870	<48 UJ	<3,530	1,100,000	<640	5,470	<420	2,780,000
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	5,350	<240	4,340 J	1,110,000	1,030 J	19,300	2,180	2,560,000
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	5,220	<240	4,290 J	1,050,000	955 J	20,700	2,060	2,060,000
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	4,940	<240	<3,530	1,070,000	965 J	4,480	3,170	2,240,000
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	4,900	<240	<3,530	1,070,000	817 J	4,730	3,520	2,390,000
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	4,720	<48	<3,530	1,040,000	916 J	<480	<420	2,390,000
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	4,660	<48	<3,530	1,040,000	959 J	<480 UJ	<420 UJ	2,430,000
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	1,230	2,650	<3,530	874,000	844 J	2,440	686 J	1,830,000
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	1,280	1,450 J-	4,450 J	728,000	1,010 J	2,710	<420	1,550,000
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	86.6	<240	4,850 J	859,000	1,370 J	12,400	3,560	1,800,000
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	3,300	19,200	<3,530	920,000	954 J	13,200	<420	1,980,000
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	3,330	30,900	<35,300	822,000	7,390 J	10,500 J-	<4200 R	1,750,000
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	4,760	<480	<3,530	1,120,000	<640	1,970	<420	2,460,000
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	6,510	<48 UJ	<3,530	1,100,000	<640	3,330	<420	2,450,000
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	6,040	<240	4,260 J	1,010,000	961 J	13,300	2,040	2,030,000
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	5,550	<480	<3,530	1,090,000	2,060	9,000	1,660	2,180,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	4,470	<120	<35,300	995,000	8,520 J	7,250 J	<4,200	2,350,000
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,810	<480	<3,530	1,130,000	<640	5,940	1,350	2,590,000
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	5.98	95.5 J	<3,530	1,120,000	<640	7,050	<420	2,460,000
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	7,450	<48	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,800	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,800	----	----	----	----	----	----	----
ZTS-MW168	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,340	<240	<3,530	1,120,000	<640	6,780 J+	487 J	2,620,000
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	4,800	<480	<3,530	1,080,000	1,800 J+	6,540 J+	2,170	2,340,000
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,620	<240	56,000 J	954,000	8,910 J	<4,800	<4,200	2,410,000
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	5,950	<480	<3,530	1,130,000	656 J	5,350 J-	4,510 J-	2,540,000
ZTS-MW174	5/26/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	5.72	<48 UJ	4,670 J	1,070,000	739 J	5,990	<420	2,330,000
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	6,680	<48	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	5,600	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	6,240	<48	----	----	----	----	----	----
ZTS-MW174	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	19.8 - 29.5	5,060	<240	<3,530	1,100,000	<640	<480	<420	2,630,000
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	4,070	<480	<3,530	1,080,000	947 J	5,510 J+	2,960	2,300,000
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	4,470	<120	<35,300	989,000	<6,400	<4,800	<4,200	2,540,000
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,340	<480	4,450 J	1,130,000	<640	749 J	451 J	2,200,000
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	6,000	<48 UJ	4,700 J	1,110,000	658 J	3,620	<420	2,450,000
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	3,850 J	<240	<3,530	1,160,000	<640	<480	<420	2,740,000
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	4,310	<480	<3,530	1,100,000	1,010 J	4,760 J+	2,820	2,340,000
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	4,450	10,700 J	<3,530	1,050,000	1,130 J	12,600 J-	<420 R	2,490,000
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	5,990	54,100	<3,530	1,110,000	733 J	20,600	<420	2,550,000
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	6,230	54,300	<3,530	1,080,000	725 J	20,000	<420	2,470,000
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	7,460	93,200	<3,530	1,070,000	<640	20,500	<420	2,310,000
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	6,880	89,600	<3,530	1,050,000	<640	20,200	<420	2,240,000
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	5,810	59,700	4,130 J	1,100,000	1,160 J	23,000	<420	2,410,000
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	5,610	62,900	4,120 J	1,060,000	1,160 J	22,000	<420	2,170,000
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	5,230	76,300	<3,530	1,140,000	843 J	17,700	2,110	2,220,000
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	5,270	76,400	<3,530	1,140,000	1,080 J	17,700	1,520	2,220,000
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	5,740	77,400	<35,300	951,000	<6,400	44,100 J	<4,200	2,450,000
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	5,440	77,600	<35,300	961,000	<6,400	20,200 J	<4,200	2,470,000
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	5,250	<480	5,470 J	1,100,000	945 J	7,010 J-	698 J	2,470,000
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	5,940	<48 UJ	4,670 J	1,070,000	690 J	5,580	<420	2,290,000
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	7,820	<240	<3,530	1,100,000	<640	3,750 J+	<420	2,490,000
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	4,440	<240	<3,530	1,050,000	<640	6,030 J	1,650 J-	2,280,000 J+
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	5,470	<240	<35,300	977,000	8,970 J	<4,800	5,850 J	2,450,000
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	5,930	1,790	<3,530	1,060,000	<640	6,300 J-	<420 R	2,530,000
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	6,260	<2,400	<3,530	1,050,000	<640	3,150 J-	<420 R	2,030,000
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	5,540	<240	4,200 J	943,000	1,240 J	13,700	1,970	1,930,000
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	3,910	<240	<3,530	1,100,000	999 J	36,300	<420	2,380,000
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	5,310	<120	5,450 J	1,030,000	1,140 J	4,930	3,320	2,600,000
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	6,170	1,920	<3,530	1,090,000	<640	5,170 J-	<420 R	2,590,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	6,750	<2,400	4,650 J	1,120,000	999 J	5,520	<420	2,580,000
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	5,710	1,100	3,630 J	1,120,000	690 J	4,230	<420	2,530,000
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	4,780	26,000	3,580 J	1,070,000	843 J	7,330 J-	1,390 J-	2,340,000
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	5,270	14,200	<35,300	954,000	<6,400	21,400	<4,200	2,330,000
Test Area 2A																
Pre-Construction Baseline Results																
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	6,620	95,200	<353	1,160,000	579	18,200	101	2,720,000
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	7,160	89,900	----	----	----	19,400	----	2,640,000
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,710	86,600	<7,060	1,200,000	<1,280	19,200 J-	<840	2,620,000
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	6,860	85,100	<353	1,150,000	535	18,100	114	2,640,000
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	6,970	94,900	<7,060	1,170,000	<1,280	18,700	<840	2,590,000
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	6,830	79,600	<3,530	1,180,000	<640	18,500	<420	2,700,000
Post-Construction Performance Monitoring Results																
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	6,140	50,900	<3,530	1,070,000	<640	16,700 J-	<420 R	2,520,000
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	6,590	86,300	<3,530	1,040,000	<640	21,900	<420	2,100,000
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	6,000	68,000	<3,530	938,000	<640	19,000 J-	<420 R	2,170,000
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	5,840	81,500	<3,530	1,040,000	1,070 J	31,100	<420	2,350,000
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	5,800	79,900	<35,300	953,000	<6,400	25,500 J-	<4,200	2,500,000
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,620	53,800	<3,530	1,110,000	<640	16,500 J-	<420 R	2,480,000
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,460	53,200	<3,530	1,110,000	<640	16,500 J-	<420 R	2,500,000
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,860	97,700	<3,530	1,100,000	<640	20,200	<420	2,390,000
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	7,370	89,800	<3,530	1,100,000	<640	20,400	<420	2,340,000
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	5,320	67,400	<3,530	1,150,000	<640	21,600 J-	<420 R	2,700,000 J
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	5,050	76,000	<3,530	997,000	<640	19,100 J-	<420 R	1,940,000 J
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,090	80,300	<3,530	1,050,000	1,060 J	30,300	<420	2,290,000
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,210	89,100	<3,530	1,060,000	1,070 J	30,900	<420	2,410,000
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,190	80,900	<35,300	1,020,000	<6,400	<4800 UJ	<4,200	2,660,000
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,000	80,900	<35,300	1,000,000	7,000 J	24,800 J	<4,200	2,500,000
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	5,950	52,300	<3,530	1,070,000	<640	16,600 J-	<420 R	2,500,000
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	8,020	94,700	4,550 J	1,030,000	712 J	18,400 J	<420	1,930,000
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	5,980	71,100	<3,530	1,090,000	<640	22,000 J-	<420 R	2,560,000
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	5,490	83,800	<3,530	962,000	<640	30,900	<420	2,200,000
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	6,250	78,500	<35,300	943,000	9,900 J	30,000	<4,200	2,450,000
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	6,090	51,000	<3,530	1,070,000	<640	16,700 J-	<420 R	2,460,000
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	7,590	96,100	<3,530	1,010,000	<640	20,100	<420 R	2,350,000
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	5,580	123,000	3,650 J	1,040,000	<640	21,800	<420	2,470,000
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	5,530	82,900	<3,530	994,000	848 J	28,700	<420	2,230,000
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	6,010	81,300	<35,300	953,000	9,020 J	28,800	<4,200	2,410,000
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	5,560	42,600	<3,530	995,000	727 J	12,800	<420	2,200,000
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	5,880	82,900	4,540 J	958,000	858 J	18,000	<420	2,210,000
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	91.1 J	34,000	<3,530	869,000	<640	13,600 J-	<420 R	1,950,000
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	4,170	49,600	4,850 J	848,000	1,100 J	18,700	<420	1,920,000
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	5,440	64,700	<35,300	867,000	9,510 J	27,000	<4,200	2,240,000
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	6,540	86,100	<3,530	1,090,000	<640	18,300	<420	2,380,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	5,920	90,800	8,820 J	1,050,000	<1,280	20,500	<840	2,480,000
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	5,980	105,000	4,160 J	1,070,000	1,310 J	21,300	1,970	2,130,000
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	5,570	92,600	5,760 J	1,010,000	910 J	30,300 J-	<420 UJ	2,250,000 J+
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	5,340	80,100	<3,530	1,020,000	1,410 J	34,200 J-	<420 UJ	2,520,000
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	5,120	10,300	<3,530	1,140,000	<640	3,070 J-	<420 R	2,520,000
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	4,310	10,300	<3,530	1,110,000	<640	5,630	<420	2,340,000
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	4,520	64,300	<3,530	1,120,000	<640	8,100	<420	2,590,000
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	4,730	40,100	<3,530	1,060,000	1,610 J+	10,300	2,480	2,230,000
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	3,830	27,600	<3,530	970,000	855 J	16,300	2,130 J	2,160,000
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	6,430	47,500	<3,530	1,100,000	<640	16,800 J-	<420 R	2,560,000
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	5,930	49,600	8,850 J	1,080,000	<1,280	18,500 J+	<840	2,490,000
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	5,620	117,000	5,020 J	1,100,000	1,100 J	22,900	<420	2,060,000
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	5,780	79,600	5,580 J	1,060,000	839 J	30,800	<420	2,440,000
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	5,730	75,400	<35,300	966,000	<6,400	22,800 J-	<4200 R	2,290,000
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	6,520	53,200	<3,530	1,020,000	705 J	17,300 J-	<420 UJ	2,460,000
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	5,960	53,600	8,810 J	1,040,000	<1,280	21,200	<840	2,480,000
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	7,390	99,700	4,180 J	1,160,000	1,300 J	23,700	<420	2,350,000
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	5,870	83,800	5,600 J	1,060,000	833 J	31,300	<420	2,430,000
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	5,340	79,300	<3,530	1,030,000	786 J	36,500	<420	2,510,000
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	6,000	44,300	<3,530	1,090,000	<640	14,700	<420	2,600,000
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	5,570	50,200	8,830 J	1,060,000	1,360 J	19,600	<840	2,500,000
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	7,220	115,000	<3,530	1,080,000	<640	19,200	<420	2,600,000
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	5,930	81,000	<3,530	1,060,000	974 J	21,100	2,540	2,340,000
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	5,460	70,300	<35,300	945,000	<6,400	22,300 J-	<4200 R	2,280,000
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	7,730	51,400	<3,530	1,100,000	<640	20,200	<420	2,560,000
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	6,880	53,600	<3,530	1,110,000	<640	20,400	<420	2,570,000
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,570	82,100	<3,530	1,070,000	<640	20,300	<420	2,370,000
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	4,550	82,000	<3,530	1,070,000	<640	20,200	<420	2,370,000
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,940	122,000	4,150 J	1,030,000	1,270 J	25,000	<420	2,020,000
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,900	119,000	4,080 J	873,000	1,040 J	21,100	<420	1,830,000
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,040	80,500	6,570 J	1,000,000	1,010 J	29,700	<420	2,130,000
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,040	73,400	5,950 J	1,040,000	789 J	30,600	<420	2,520,000
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,320	76,800	<3,530	1,020,000	1,030 J	23,200 J-	<420 R	2,440,000
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,340	79,100	<3,530	1,030,000	1,050 J	22,900 J-	<420 R	2,440,000
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	5,750	33,100	<3,530	1,020,000	640 J	12,200 J-	<420 R	2,360,000
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	4.89	74,000	<3,530	1,020,000	<640	13,600	<420	2,340,000
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	6,230	46,400	----	----	----	----	----	----
ZTS-MW203	10/11/2023	FS	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	4,900	----	----	----	----	----	----	----
ZTS-MW203	11/30/2023	N	PM03	2A	Downgradient	5	UMCf	28.3 - 38.0	4,440	85,900	4,050 J	881,000	1,380 J	14,900	<420	1,800,000
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	3,480	38,100	6,340 J	805,000	1,140 J	16,300	<420	1,700,000
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	5,100	59,800	<3,530	1,040,000	818 J	11,300 J-	<420 R	2,090,000
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	6,250	50,700	<3,530	1,090,000	<640	21,300	763 J	2,630,000
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	6,100	54,500	<3,530	1,060,000	<640	20,600	<420	2,370,000
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	4,750	120,000	4,820 J	1,050,000	1,110 J	24,600	<420	2,080,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	5,040	83,100	5,840 J	1,050,000	885 J	30,700	<420	2,330,000
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	4,700	80,000	6,690 J	868,000	918 J	24,800	<4,200	2,200,000
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	4,420	52,900	<3,530	1,050,000	<640	17,400 J-	<420 R	2,550,000
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	5,810	87,500	<3,530	1,070,000	<640	20,400	<420	2,370,000
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	5,930	124,000	4,090 J	924,000	1,260 J	22,200	<420	2,150,000
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	4,970	84,300	5,830 J	1,020,000	809 J	29,400	<420	2,300,000
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	5,200	76,500	<35,300	989,000	15,600	23,000 J-	<4200 UJ	2,360,000
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	6,430	53,800	<3,530	1,040,000	<640	17,200 J-	<420 R	2,510,000
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	6,490	91,500	<3,530	1,080,000	<640	19,300	<420	2,310,000
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	5,960	109,000	4,080 J	977,000	1,160 J	21,400	2,700	2,110,000
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	5,260	79,100	<3,530	1,080,000	1,080 J	25,900	<420	2,220,000
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	5,880	76,200	<3,530	1,060,000	774 J	16,100 J-	<420 R	2,980,000
Test Area 2B																
Pre-Construction Baseline Results																
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,150	19,800	<7,060	1,350,000	<1,280	3,030	<840	2,750,000
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	2,840	7,320	----	----	----	3,360	----	1,460,000
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.3	<2,400	<353	698,000	994	<48	232	1,100,000
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.3	<2,400	<353	636,000	988	<48	231	1,010,000
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	6,980	101,000	<3,530	1,150,000	<640	20,200	<420	2,460,000
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	2,690	21,700	<3,530	1,350,000	<640	3,710	<420	2,700,000
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	805	11,900	<3,530	685,000	<640	2,130	<420	1,180,000
Post-Construction Performance Monitoring Results																
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,690	4,280	<3,530	1,310,000	663 J	1,730	<420	2,680,000
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,290	4,210 J	<3,530	1,350,000	864 J	9,780 J-	<420	2,700,000
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,520	5,820 J+	<3530 UJ	1,370,000	<640	5,700 J+	<420 R	2,720,000
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,960	27,600	<3530 UJ	1,370,000	1,110 J	15,200	<420	2,600,000
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,930	19,800	<35,300	1,250,000	9,180 J	10,100 J-	<4,200	2,590,000
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	14.4	<480	5,540 J	793,000	1,100 J	<480 R	<420 R	1,530,000
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.3	<24 UJ	<3,530	935,000	<640	<480	<420	1,600,000
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.3	<240	4,590 J	1,050,000	1,130 J	17,300	<420	1,910,000
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.3	<240	<3,530	1,140,000	955 J	<480	<420	2,000,000
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	<1.5 UJ	<120	<3,530	1,200,000	1,370 J	<480 R	<420 R	2,160,000
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	6,000	45,700	<3,530	1,090,000	<640	18,500	<420	2,490,000
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	5,760	76,200	<3,530	1,090,000	<640	18,200	<420	2,350,000
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	5,070	52,600	<3,530	934,000	<640	14,500	<420	2,090,000
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	2,700	42,100	<3,530	1,140,000	1,080 J	17,000	<420	2,130,000
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	4,540	63,800	<35,300	968,000	12,100 J	18,700 J-	<4200 UJ	2,210,000
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	921	5,290	<3,530	1,060,000	807 J	3,740 J-	1,170	1,840,000
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	1,310	3,210 J	8,770 J	1,140,000	<1,280	5,230 J+	<840	2,200,000
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	42.5	<240	<3,530	1,180,000	668 J	1,570	<420	2,270,000
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	63.7	<240	<3,530	1,180,000	<640	<480 UJ	1,390 J-	1,990,000 J+
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	187	8,650	<3,530	1,250,000	867 J	<480	<420	2,340,000
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	1,320	<240	<3,530	1,290,000	<640	<480	<420	2,530,000
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	1,200	<240	<3,530	1,270,000	<640	<480	<420	2,470,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	1,080	<2,400	8,870 J	1,330,000	<1,280	<960	<840	2,520,000
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	1,170	<240	4,190 J	1,310,000	1,030 J	15,200	<420	2,380,000
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	1,370	<120	<3,530	1,330,000	<640	<480 UJ	1,540 J-	2,380,000 J+
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	1,870	<240	<3,530	1,400,000	<640	<480	<420	2,740,000
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	888	1,120	<3,530	1,030,000	704 J	1,160 J-	<420 UJ	2,050,000
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	1,350	20,500	<3,530	1,200,000	<640	3,090	<420	2,150,000
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	1,650	41,400 J+	4,050 J	1,150,000	1,200 J	13,700	<420	1,830,000
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	1,560	8,100	<3,530	1,350,000	915 J	4,590	<420	2,300,000
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	1,590	9,030	5,230 J	1,290,000	833 J	<480 UJ	<420 UJ	2,530,000
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	1,340	1,630 J-	<3,530	1,300,000	<640	2,900	<420	2,710,000
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	2,150	3,450 J	<3,530	1,330,000	<640	3,690	<420	2,550,000
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	2,410	48,800	4,060 J	1,320,000	1,130 J	18,400	<420	2,340,000
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	2,500	19,400	<3,530	1,330,000	<640	5,370	<420	2,400,000
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	2,610	14,200	<3,530	1,320,000	1,080 J	7,580 J-	<420 UJ	2,580,000
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	2,900	6,390	<3,530	1,270,000	<640	1,740	<420	2,640,000
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	3,580	27,200	<3,530	1,400,000	<640	4,950	<420	2,620,000
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	3,790	51,000	4,120 J	1,520,000	1,280 J	21,300	<420	2,420,000
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	3,860	30,400	<3,530	1,410,000	792 J	16,200 J-	<420 UJ	2,480,000
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	3,840	20,900	<3,530	1,380,000	1,360 J	9,930 J-	<420 R	2,930,000
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	986	2,200 J	<3,530	796,000	670 J	668 J	<420	1,550,000
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	1,060	3,220 J	<3,530	878,000	651 J	878 J	<420	1,740,000
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	272	457 J	<3,530	814,000	<640	554 J	<420	1,530,000
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	255	348 J	<3,530	811,000	<640	590 J	<420	1,520,000
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	530	330 J	<3,530	878,000	<640	1,830 J+	<420	1,940,000
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	565	371 J	<3,530	890,000	<640	1,920 J+	<420	1,910,000
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	644	9,690	<3,530	945,000	1,140 J	<480	2,990 J	1,790,000
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	654	8,870	<3,530	948,000	989 J	<480	<420 UJ	1,790,000
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	700	5,210	<3,530	864,000	1,110 J	<480 R	<4,200	1,580,000
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	706	5,650	<3,530	896,000	1,080 J	<480 R	<4,200	1,610,000
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	3,770	6,760	<3,530	1,300,000	<640	2,290 J-	<420 R	2,750,000
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	3,660	7,330	<3,530	1,360,000	707 J	6,980	<420	3,100,000
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	4,270	66,100	<3,530	1,390,000	<640	6,860 J+	<420	2,840,000
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	4,500	29,300	<3,530	1,380,000	<640	16,700	<420	2,580,000
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	4,090	23,500	<3,530	1,270,000	1,040 J	16,400	<4,200	2,540,000
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	112 J	597 J	<3,530	576,000	<640	<480 R	<420 R	1,040,000
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	207 J	1,060 J	<1,760	639,000	725 J	<240 R	<210 R	1,190,000
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	35.5	9,350	<353 UJ	670,000	822	551 J	<42	1,150,000
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	30.2	7,250	4,410 J	657,000	1,010 J	<480 UJ	<420	1,150,000
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	30.7	<240	4,650 J	677,000	1,320 J	<480 UJ	<420	1,200,000
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	28.7	<240	2,690 J	723,000	1,090	9,430 J	<210	1,250,000
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	19.9 J	<120	<3530 UJ	733,000	716 J	<480	<420	1,310,000
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	4.45 J	<120	<3530 UJ	732,000	722 J	<480	<420	1,310,000
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	207	4,920	<35,300	709,000	10,500 J	<4800 R	<4200 R	1,220,000
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	206	4,220	<35,300	720,000	<6,400	<4800 R	<4200 R	1,250,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	4,440	25,200	<3,530	972,000	<640	12,000	726 J	2,130,000
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	4,270	71,700	<3,530	1,050,000	<640	12,800	<420	2,230,000
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	4,110	83,600	<3,530	1,070,000	<640	12,900	<420	2,310,000
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	4,250	51,300	<3,530	1,040,000	1,240 J	12,200	<420	1,840,000
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	4,570	51,200	70,600 J	916,000	8,790 J	21,900	<4,200	2,110,000
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	3,660	6,600	<3,530	1,410,000	<640	5,070	931 J	2,840,000
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	4,790	10,100 J-	4,530 J	1,360,000	782 J	5,310	<420	2,620,000
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	4,300	11,400	<3,530	1,440,000	<640	7,290 J+	<420	2,990,000
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	4,640	29,600	<3,530	1,340,000	<640	15,600	<420	2,560,000
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	4,350	24,600	<35,300	1,310,000	8,840 J	<4,800	<4,200	2,770,000
Test Area 2C																
Pre-Construction Baseline Results																
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	6,650	93,400	<7,060	1,150,000	<1,280	18,500	<840	2,600,000
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6,150	65,500	----	----	----	18,000	----	2,530,000
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	7,530	87,200	<3,530	1,220,000	<640	18,100	<420	2,820,000
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	7,180	93,800	<3,530	1,230,000	<640	18,100	<420	2,770,000
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	7,030	86,300	<3,530	1,180,000	<640	17,400	<420	2,720,000
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	6,760	83,600	<7,060	1,130,000	<1,280	17,400	<840	2,620,000
Post-Construction Performance Monitoring Results																
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	7,160	57,800	<3,530	1,130,000	<640	20,700	<420	2,610,000
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	7,260	59,000	<3,530	1,130,000	<640	20,700	<420	2,570,000
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	8,940	58,800	<7,060	1,130,000	<1,280	20,200	<840	2,470,000
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	5,760	60,300	<7,060	1,150,000	<1,280	20,400	<840	2,500,000
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	7,040	76,100	3,620 J	1,100,000	<640	18,200	<420 R	2,460,000
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	7,050	71,800	3,590 J	1,120,000	<640	19,000	<420 R	2,470,000
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	5,510	85,100	4,400 J	1,100,000	727 J	22,200	2,520 J	2,230,000
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	6,360	85,700	<3,530	1,050,000	848 J	21,100	<420 UJ	2,280,000
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	5,650	88,900	<35,300	978,000	8,260 J	43,800 J	<4,200	2,460,000
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	5,620	86,400	<35,300	980,000	<6,400	23,400 J	<4,200	2,600,000
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6,950	57,000	<3,530	1,070,000	702 J	13,400 J-	<420 UJ	2,480,000
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6,740	61,500	<7,060	1,120,000	<1,280	20,200	<840	2,460,000
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6,900	75,300	<3,530	1,110,000	<640	19,400	<420 R	2,480,000
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	5,490	84,300	<3,530	1,040,000	1,050 J	20,900	1,250	2,280,000
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	5,620	86,100	<35,300	1,010,000	<6,400	<4,800	<4,200	2,600,000
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	7,250	51,900	<3,530	1,120,000	<640	12,200	427 J	2,190,000
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	7,140	95,600	<353	1,030,000	551	18,300	<42	2,480,000
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	7,460	76,300	4,050 J	1,150,000	<640	19,900	<420	2,420,000
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	5,970	89,400	<3,530	1,090,000	808 J	28,500	<420	2,370,000
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	5,690	80,400	<35,300	1,010,000	<6,400	55,000	<4,200	2,500,000
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6,190	52,800	<3,530	1,040,000	<640	16,300 J-	<420 R	2,520,000
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	8,140	99,800	<3,530	1,120,000	<640	19,800 J-	<420 R	2,150,000
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6,620	73,200	4,120 J	1,080,000	<640	21,100	<420	2,460,000
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	5,720	84,400	<3,530	975,000	874 J	19,600 J-	751 J	2,670,000
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	5,080	84,200	6,650 J	908,000	<640	24,700	<4,200	2,220,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	1,500	14,900	<353 R	624,000	897 J-	3,260	367	1,110,000
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	3,020	35,100	4,440 J	683,000	1,030 J	6,990	<420	1,370,000
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	3,650	21,800	<3,530	727,000	<640	8,320 J-	<420 R	1,500,000
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	2,320	33,400	<3,530	662,000	768 J	12,300	<420	1,350,000
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	2,490	26,800	<35,300	634,000	10,700 J	12,100	<4,200	1,220,000
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	6,600	28,900	<3,530	1,070,000	643 J	9,070 J-	<420	2,480,000
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	5,830	36,400	<3530 UJ	1,130,000	<640	13,600	<420	2,400,000
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	5,400	80,600	<3530 UJ	1,110,000	<640	15,500 J-	<420	2,480,000
ZTS-MW182	11/28/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	----	----	----	----	----	----	----	----
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	5,620	82,200	5,530 J	1,110,000	929 J	25,500 J-	<420	2,430,000
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	6,390	73,000	<3530 UJ	1,130,000	788 J	12,400 J-	<420 UJ	2,780,000
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	5,900	43,400	<3,530	1,080,000	656 J	9,680	435 J	2,300,000
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	6,500	51,100	<3,530	1,120,000	<640	17,900	<420	2,420,000
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	5,850	132,000	<3,530	1,120,000	<640	19,700	<420	2,510,000
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	6,090	98,200	<3,530	997,000	727 J	20,400 J-	1,260 J-	2,240,000 J+
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	5,660	81,900	<3,530	1,120,000	801 J	14,900 J-	<420 R	2,520,000
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	5,860	44,800	<3,530	1,050,000	665 J	13,700 J-	<420 UJ	2,430,000
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	6,370	94,800	<3,530	1,110,000	<640	16,000	<420	2,480,000
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	5,670	68,600	<3,530	1,080,000	<640	20,000	<420	2,640,000
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	6,060	90,500	5,940 J	1,060,000	858 J	28,400	<420	2,420,000 J+
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	5,090	75,700	<3,530	1,040,000	1,040 J	20,900 J-	<420 R	2,380,000
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	6,440	56,800	<3,530	1,100,000	<640	14,700	<420	2,600,000
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	6,890	104,000	<3,530	1,070,000	<640	19,500	<420	2,290,000
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	6,120	75,800	3,710 J	1,040,000	<640	21,000	<420	2,540,000
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	5,610	79,300	<3,530	1,020,000	745 J	20,000	2,500	2,250,000
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	5,460	88,400	<35,300	1,050,000	11,400 J	20,800 J-	<4200 UJ	2,370,000
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	7,140	44,500	<3,530	1,070,000	<640	13,900 J-	<420 R	2,590,000
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	6,580	78,100	<3,530	1,110,000	<640	17,200	<420	2,440,000
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	6,330	62,300	4,100 J	935,000	1,060 J	20,000	1,880	1,840,000
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	5,960	82,700	<3,530	994,000	<640	30,300	<420	2,270,000
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	6,350	78,700	<35,300	991,000	<6,400	<4,800	<4,200	2,650,000
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	6,440	51,400	<3,530	1,050,000	644 J	15,300 J-	<420 UJ	2,430,000
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	6,490	55,100	<3,530	1,130,000	<640	19,500	<420	2,390,000
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	5,800	134,000	3,580 J	1,120,000	<640	20,000	<420	2,510,000
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	6,140	97,900	<3,530	1,040,000	801 J	22,000 J-	1,160 J-	2,420,000 J+
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	5,650	84,800	<3,530	1,090,000	821 J	14,900 J-	<420 R	2,910,000
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	338	380 J-	<353	477,000	1,040	62.3 J	<42 UJ	696,000
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	299	155 J-	<353 R	478,000	1,100	268	<42	691,000
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	31.3	<240	<353	425,000	89.3 J	62.7 J	<42	625,000
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	1,660	8,480	803 J	608,000	931	3,030	807 J	1,080,000
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	119	370	<353	470,000	845 J+	<48 R	<42 R	761,000
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	5,940	55,800	<3,530	1,100,000	651 J	14,400	<420	2,470,000
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	6,890	74,400	<3,530	1,070,000	687 J	21,200	<420	2,310,000
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	6,330	72,900	4,070 J	905,000	1,050 J	20,600	<420	2,160,000

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	5,530	85,100	<3,530	1,030,000	1,330 J	21,100	1,850	2,270,000
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	6,000	83,600	<35,300	989,000	<6,400	<4,800	<4,200	2,630,000
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	5,870	55,600	<3,530	1,100,000	683 J	14,600	<420	2,530,000
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	4,930	96,300	<3,530	1,130,000	787 J	22,500	<420	3,640,000
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	6,200	128,000	4,100 J	958,000	1,230 J	22,200	<420	2,070,000
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	5,850	81,100	<3,530	1,020,000	817 J	20,600 J-	680 J	2,820,000
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	6,050	80,600	<35,300	973,000	<6,400	<4,800	<4,200	2,610,000
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	5,870	53,600	5,470 J	1,030,000	877 J	16,100 J-	<420 R	2,410,000
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	6,440	94,800	4,600 J	1,030,000	854 J	20,400	<420	2,060,000
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	5,260	69,900	<3,530	1,110,000	<640	22,000 J-	<420 R	2,850,000
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	5,550	76,500	<3,530	1,010,000	950 J	20,400 J-	747 J	2,770,000
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	5,960	82,400	<35,300	940,000	12,300 J	25,500	<4,200	2,400,000
General Vicinity																
Pre-Construction Baseline Results																
LVWPS-MW102A	10/21/2022	N	BL02	NA	Downgradient	30	UMCf	47.0 - 66.6	3,700	35,400	<3,530	2,320,000	<640	6,230	<420	5,630,000
LVWPS-MW102B	10/21/2022	N	BL02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<30	<24,000	<7,060	12,000,000	<1,280	<960	<840	34,800,000
LVWPS-MW107A	10/24/2022	N	BL02	NA	Downgradient	50	Alluvium	24.8 - 34.5	7,070	91,100	<3,530	1,170,000	<640	19,600	<420	2,650,000
LVWPS-MW107B	10/21/2022	N	BL02	NA	Downgradient	50	UMCf	46.0 - 65.8	<30	<2,400	<7,060	1,200,000	<1,280	<960	<840	2,830,000
LVWPS-MW107C	10/24/2022	N	BL02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<30	<24,000	<35,300	14,900,000	<6,400	<4,800	<4,200	42,000,000
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	3,510	12,600	----	----	----	6,710	----	2,660,000
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	4,110	21,600	<3,530	862,000	<640	5,110	<420	2,760,000
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	4,710	13,300	----	----	----	7,250	----	2,060,000
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	6,060	51,400	<3,530	1,060,000	<640	11,600	<420	2,630,000
Post-Construction Performance Monitoring Results																
LVWPS-MW102A	5/30/2023	N	PM01	NA	Downgradient	30	UMCf	47.0 - 66.6	4,190	7,640	<7,060	2,190,000	<1,280	2,800 J	<2100 R	5,350,000
LVWPS-MW102A	8/23/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	4.05	7,910	29,300	2,160,000	<640	3,530	<420	5,030,000
LVWPS-MW102A	10/11/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	5,640	15,200	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	4,400	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	NA	Downgradient	30	UMCf	47.0 - 66.6	4,060	11,400	<3,530	1,960,000	<640	7,750 J-	<420 R	4,710,000
LVWPS-MW102A	2/27/2024	N	PM04	NA	Downgradient	30	UMCf	47.0 - 66.6	4,190	44,100	<3,530	2,120,000	773 J	<480	<420	5,110,000
LVWPS-MW102A	5/23/2024	N	PM05	NA	Downgradient	30	UMCf	47.0 - 66.6	4,640	30,800	<3,530	2,050,000	738 J	<480 R	<420 R	5,470,000
LVWPS-MW102B	5/26/2023	N	PM01	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<0.3	2,580	<35,300	11,600,000	<6,400	<4800 R	<4200 R	34,900,000
LVWPS-MW102B	8/23/2023	N	PM02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<0.3	<48 UJ	<3,530	9,630,000	<640	<480	<420	33,100,000
LVWPS-MW102B	12/1/2023	N	PM03	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	2.03 J	<2,400	<3,530	11,800,000	<640	<480 R	<420 R	44,200,000
LVWPS-MW102B	2/27/2024	N	PM04	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	9.44	<480	<35,300	10,800,000	<6,400	<4,800	11,000	31,700,000
LVWPS-MW102B	5/23/2024	N	PM05	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<30	<2,400	<3,530	12,700,000	<640	<480 R	<420 R	32,900,000
LVWPS-MW107A	5/23/2023	N	PM01	NA	Downgradient	50	Alluvium	24.8 - 34.5	6,410	933 J	<3,530	1,050,000	<640	1,880	<420	2,460,000
LVWPS-MW107A	8/24/2023	N	PM02	NA	Downgradient	50	Alluvium	24.8 - 34.5	4,510	137 J-	<3,530	1,070,000	<640	2,990	<420	2,290,000
LVWPS-MW107A	11/30/2023	N	PM03	NA	Downgradient	50	Alluvium	24.8 - 34.5	4,580	<240	4,240 J	957,000	1,160 J	17,800	1,990	2,020,000
LVWPS-MW107A	2/22/2024	N	PM04	NA	Downgradient	50	Alluvium	24.8 - 34.5	4,070	12,100	<3,530	939,000	<640	<480	<420	2,070,000
LVWPS-MW107A	5/28/2024	N	PM05	NA	Downgradient	50	Alluvium	24.8 - 34.5	4,770	10,500	5,450 J	1,020,000	898 J	5,240	2,660	2,650,000
LVWPS-MW107B	5/23/2023	N	PM01	NA	Downgradient	50	UMCf	46.0 - 65.8	<0.3	<480	<3,530	1,140,000	708 J	<480	<420	2,520,000
LVWPS-MW107B	8/24/2023	N	PM02	NA	Downgradient	50	UMCf	46.0 - 65.8	11.3	86.6 J	<3,530	671,000	<640	3,790	<420	1,620,000
LVWPS-MW107B	12/1/2023	N	PM03	NA	Downgradient	50	UMCf	46.0 - 65.8	8.28	<120	<3,530	270,000	<640	<480 R	<420 R	818,000

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	E314.0	E300.1	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107B	2/23/2024	N	PM04	NA	Downgradient	50	UMCf	46.0 - 65.8	<0.3	<240	<3,530	1,140,000	1,080 J	<480	<420	2,660,000
LVWPS-MW107B	5/24/2024	N	PM05	NA	Downgradient	50	UMCf	46.0 - 65.8	<3	<240	<35,300	1,060,000	8,990 J	<4,800	<4,200	2,570,000
LVWPS-MW107C	5/23/2023	N	PM01	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.3	5,320	<35,300	13,000,000	<6,400	<4,800	<4,200	33,800,000
LVWPS-MW107C	8/24/2023	N	PM02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.3	<120 UJ	40,600	9,600,000	<640	<480	<420	31,500,000
LVWPS-MW107C	12/1/2023	N	PM03	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.3	<2,400	<3,530	13,100,000	<640	<480 R	<420 R	38,500,000
LVWPS-MW107C	2/23/2024	N	PM04	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.3	<1,200	<3,530	13,700,000	<640	115,000	<420	32,600,000
LVWPS-MW107C	5/28/2024	N	PM05	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<30	<240	<35,300	12,800,000	<6,400	<480	<420	37,000,000
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	3,720	6,730	<3,530	816,000	765 J	4,340 J-	<420 UJ	2,490,000
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	4,080	4,740 J	<3,530	878,000	<640	7,230	<420	2,330,000
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	4,390	6,490	<3,530	898,000	699 J	8,760	<420	2,660,000
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	4,460	36,100	<3,530	911,000	994 J	10,700 J-	1,030 J-	2,410,000
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	4,500	23,000	<35,300	808,000	8,490 J	11,900	<4,200	2,460,000
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	6,110	21,600	<3,530	961,000	794 J	10,100 J-	<420 UJ	2,290,000
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	7,360	30,100	<3,530	995,000	717 J	19,000	<420	2,320,000
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	6,440	45,700	4,060 J	1,100,000	665 J	16,100	<420	2,510,000
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	4,470	14,000	<3,530	883,000	942 J	17,600	<420	2,040,000
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	5,370	48,400	<7,060	968,000	1,440 J	14,700	<42	2,530,000

Notes:
1. Distances from the discontinuous or continuous walls are shown as negative values for upgradient monitoring wells, as
bgs - below ground surface
J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be
< The analyte was analyzed for, but was not detected above the level of the reported sample
mg/L - milligram per liter
mS/cm - milliSiemens per centimeter
mV - millivolts
nmol - nanomol
SU - standard units
N - normal field sample
µg/L - micrograms per liter
UMCf - Upper Muddy Creek formation
FD - field duplicate
FS - field split

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
Test Area 1A																
Pre-Construction Baseline Results																
ZTS-MW143	10/18/2022	N	BL02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	26,600	11,300	15,300	<35	103,000	110	4,570,000	<14
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	----	----	3,020,000	----
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	----	----	2,310,000	----
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	17,900	<1,400	15,500	<35	102,000	2.6	4,750,000	<14
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	17,600	2,560	15,000	<35	102,000	2.9	4,220,000	<14
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	3,650,000	----
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	<50	<140	<50	<35 UJ	132,000	7.2	2,930,000	143
ZTS-MW125	10/24/2022	FD	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	7.2	----	----
ZTS-MW144	10/18/2022	N	BL02	1A	Downgradient	35	Alluvium	24.0 - 34.0	18,900	3,590	15,300	<35	118,000	92	4,750,000	<14
Post-Construction Performance Monitoring Results																
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	15,000	<700	15,000	89.6 J	110,000	42	5,120,000	16 J
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	15,500	<560	15,500	<35	114,000	<0.49	3,860,000	15 J
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	12,200	<140	12,200	74.5 J	119,000	2.6	4,220,000 J-	35
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	12,900	<1,400	12,900	98 J	123,000	<0.49	5,420,000	54
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	14,200	<1,400	14,200	223 J+	125,000	----	5,520,000	90
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	17,100	<700	17,100	<35	110,000	40	4,590,000	26 J
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	17,700	3,700 J	14,000	<35	112,000	14.2	4,420,000	17 J
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	12,700	<1,400	12,700	84 J	109,000	7.5	5,540,000	22 J
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	34,800	<700	13,600	69.5 J	114,000	10.9	4,150,000	30 J
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	14,700	<1,400	14,700	43.7 J	108,000	----	5,170,000	14 J
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	645	282	363	135	126,000	32 J	2,970,000	82
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	3,730	<140	3,730	66.8 J	122,000	17.1	3,210,000	87
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	3,740	<140	3,740	248 J+	123,000	2.6	2,790,000 J	76
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	6,020	238 J	745	114	128,000	86.8 J	2,870,000	78
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	3,410	<140	3,410	86.7 J	124,000	----	3,080,000	69
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	17,200	<700	17,200	114	115,000	36	4,840,000	37
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	15,300	<560	15,300	50.3 J	108,000	14	3,810,000	<14
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	14,700	<1,400	14,700	154 J+	121,000	2.3	3,830,000	33
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	23,900	<700	13,100	<35	109,000	11.1	5,490,000	25 J
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	14,900	<1,400	14,900	<35	109,000	----	3,250,000	<14
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	14,700	<560	14,700	<35	106,000	49 J	5,370,000	<14
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	15,100	<560 UJ	15,100	<35	104,000	2.3	4,140,000	<14
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	14,700	<1,400	14,700	79.9 J	108,000	----	3,850,000	22 J
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	26,000	<700	14,800	<35	103,000	5	5,220,000	25 J
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	15,300	<1,400	15,300	<35	106,000	----	4,070,000 J-	<14
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	3,440	3,210	234	35.6 J	28,100	<0.49	4,760,000	136
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,760	2,060	697	<35	30,800	29.3 J-	3,990,000	<14
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	3,210	2,270 J+	937	<35	32,100	1.7	4,210,000	<14
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,820	2,090	727	122 J+	28,200	5.7 J	3,440,000	<14 UJ
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	4,170	2,160	2,010	61.7 J	38,300	----	4,820,000	<14
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,580	1,580	<50	<35	29,900	30	4,750,000 J-	<14
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,560	3,370	185	45.5 J	27,100	28.5 J-	4,170,000	<14

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,970	3,970	<2,500	57.4 J	25,500	<0.49	5,120,000	<14
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,030	3,030	<50	<35	23,100	4.2 J	5,110,000	<14 UJ
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,860	3,640	220	<35	30,400	----	5,060,000	19 J
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,600	2,740	1,860	<35	39,700	2,100	4,070,000	<14
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,390	2,680	1,710	<35	39,200	----	3,860,000	<14
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,010	1,680	1,330	<35	30,500	2,400	5,130,000	<14 UJ
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,220	1,560	1,660	<35	30,200	----	4,620,000	<14 UJ
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,440	1,250	3,190	36.9 J	40,600	116	4,180,000	<14
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,610	1,190	2,420	38.1 J	41,500	----	4,380,000	<14
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,750	2,460	2,290	<35	35,600	184	5,270,000	<14 UJ
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,950	2,690	2,260	<35	32,200	----	5,220,000	<14 UJ
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,750	2,430	1,320	42.4 J	29,900	----	4,990,000	<14
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	819	<140	819	113 J+	30,300	----	5,000,000	<14
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	4,060	1,280	2,780	<35	78,300	34 J	5,110,000	31
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	6,620	870	5,750	93.8 J	121,000	42.6 J-	4,680,000	160
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	8,850	<140	8,850	122 J+	130,000	1.4	5,160,000	<14
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	10,900	2,730 J+	8,210	<175	111,000	2.7 J	6,310,000	<14
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	12,100	<1,400	12,100	<35	117,000	----	3,680,000 J-	<14
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	3,080	1,900 J+	1,180	<35	62,300	26	5,070,000	<14
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	3,280	2,120	1,160	<35	63,200	----	4,860,000	<14
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	7,550	<560	7,550	<35	103,000	18.6 J+	3,060,000 J	<14
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	7,750	<560	7,750	54.1 J	105,000	----	4,280,000 J	<14
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	5,910	156 J	5,750	51.5 J	104,000	1.4	5,720,000	<14
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	6,140	343	5,800	43.6 J	105,000	----	6,480,000	<14
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	9,200	<1,400	9,200	<35	96,300	2.7	5,530,000	<14
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	9,200	<1,400	9,200	<35	101,000	----	5,550,000	<14
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	10,000	<280	10,000	47.5 J	107,000	----	4,020,000	<14
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	9,800	<280	9,800	<35	109,000	----	4,250,000	<14
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	<50	<140	<50	35.8	115,000	18	4,300,000	<14
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	<50	<140	<50	<35	114,000	24.6 J+	2,710,000 J	17 J
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	706 J+	462 J+	244	63 J	119,000	1.6	2,740,000 J	15 J
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	901 J+	186 J	715	<35	122,000	<0.49	3,050,000	21 J
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	5,940	<560	5,940	37.8 J	112,000	----	3,550,000	19 J
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	5,930	1,410	4,520	35.5 J	73,200	40	5,360,000	<14
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	9,780	<560	9,780	<35	98,300	<0.49	4,170,000	<14
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	12,600	<700	12,600	48.9 J	107,000	1.8 J	6,190,000	<14
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	30,300	<1,400	12,900	44.1 J	104,000	<0.49	5,440,000	29 J
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	13,300	<2,800	13,300	<700	103,000	----	5,230,000	<14
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	4,650	1,680	2,970	184	67,000	45 J	5,470,000	159
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	8,400	<560	8,400	59.6 J	94,400	11.4 J+	5,150,000	32
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	8,450	<140	8,450	63.9 J	117,000	<0.49	5,460,000	33
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	7,450	<700	7,450	61.4 J	103,000	2.7 J	5,970,000	19 J
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	14,600	<1,400	12,400	47.9 J	104,000	----	3,960,000 J-	<14
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	3,050	1,770 J	1,280	68 J	62,900	32 J	8,910,000	51

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,770	1,270	4,500	<35	82,300	2.1 J-	4,480,000	23 J
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	6,410	1,890 J+	4,520	54.4 J	91,500	1.7	4,200,000	<14
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	10,100	<1,400	10,100	83.7 J	97,600	2.4	5,110,000	<14
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	8,920	<560	8,920	<35	105,000	----	5,200,000	<14
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,140	1,930	3,210	<35	94,200	32 J	5,440,000	30 J
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	8,250	<560	8,250	<35	105,000	24.8	5,260,000	<14 UJ
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	11,800	<700	11,800	57 J	108,000	<0.49	6,030,000	16 J
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	15,200	<1,400	15,200	<35	109,000	4	5,550,000	<14
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	11,800	<560	11,800	38.7 J	113,000	----	5,410,000	<14
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	13,500	<700	13,500	100 J	111,000	47	4,560,000	42
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	14,600	<700	14,600	178 J+	109,000	2.1	4,330,000	73
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	14,000	<700	14,000	62.2 J	122,000	1.9 J	6,400,000	31
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	23,900	<1,400	12,100	35.4 J	115,000	<0.49	5,620,000	<14 UJ
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	14,900	<700	14,900	35.3 J	113,000	----	5,190,000	19 J
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	6,060	2,820	3,240	81.4 J	79,900	52 J	5,330,000	48
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	5,660	2,060	3,600	39.2 J	75,900	4.9	4,350,000	18 J
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	7,010	<700	7,010	75 J	93,400	2.2 J	6,350,000	20 J
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	24,200	3,840 J+	8,510	41.8 J	82,700	4.5	5,610,000	<14
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	8,640	<700	8,640	<35	96,000	----	5,270,000	14 J
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	4,680	1,990	2,690	<35	69,600	18	4,860,000	<14
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	7,350	4,720	2,630	<35	71,500	4	4,140,000	<14
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	7,230	<560	7,230	72.7 J	96,400	----	4,090,000	<14
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	24,600	840 J	7,920	53.7 J	77,500	2	5,320,000	14 J
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	8,770	<280	8,770	<35	97,200	----	3,690,000	<14
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	730	149 J	581	91.2 J	128,000	40	2,460,000 J	28 J
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	9,080	<560	9,080	<35	104,000	2.9	3,990,000	40
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	8,470	<560	8,470	89.8 J	106,000	2.6	3,780,000	26 J
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	9,900	<700	9,900	46 J	104,000	2.9	4,630,000	34
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	9,950	<140	9,950	50 J	110,000	----	2,940,000	28 J
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	8,190	386 J-	7,800	37.7 J	98,100	18	4,140,000	<14
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	10,400	<560	10,400	<35	98,200	3.8 J+	3,520,000	21 J
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	10,500	<1,400	10,500	78 J	101,000	1.9	4,460,000	29 J
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	12,900	<700	12,900	<35 UJ	96,900	3.7	3,690,000	27 J
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	12,900	<1,400	12,900	38.1 J	101,000	----	4,250,000	<14
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	4,640	1,090	3,550	74.4 J	72,700	35	4,950,000	17 J
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	9,690	740 J	8,950	<35 UJ	90,400	2.6	5,350,000	20 J-
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	10,200	1,270 J	8,910	1,860 J	96,000	----	4,380,000	15 J-
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	8,700	<280	8,700	83.3 J	98,800	2	3,810,000	<14
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	8,780	<560	8,780	77 J	96,500	----	4,630,000	<14
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	20,500	<1,400	9,040	64.6 J	102,000	16.5	5,690,000	26 J
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	21,400	<1,400	8,890	61.9 J	100,000	----	5,590,000	31
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	11,800	<280	11,800	<35	102,000	----	3,860,000	<14
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	11,900	<280	11,900	<35	102,000	----	4,620,000	<14
Between Test Area 1A and Test Area 1B																

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Groundwater Anaytical Results
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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
Pre-Construction Baseline Results																
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	3,730	<140	3,730	<35	114,000	7.3	3,710,000	<14
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	5,500	<140	5,500	<35	127,000	10	5,180,000	<14
Post-Construction Performance Monitoring Results																
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	695	435 J+	260	35 J	138,000	17	700,000	<14
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	156	<140	156	<35	112,000	<0.49	3,480,000	44
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<50	<140	<50	55.7 J	112,000	2.1	3,180,000 J-	35
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	435 J+	<140	435	<35 UJ	120,000	9.6	3,330,000	35
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	327	<140	327	60.1 J	118,000	----	2,610,000	17 J
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	2,780	<140	2,780	59.3 J	129,000	41	3,960,000	42
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	436 J+	436 J+	<50	<35	130,000	2.4	3,660,000	31
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	163	163 J	<50	66.9 J	127,000	<0.49	5,570,000	28 J
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	243 J	243 J	<50	78.6 J	122,000	2.7	5,140,000	23 J
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<50	<140	<50	73 J	127,000	----	5,120,000	31
Test Area 1B																
Pre-Construction Baseline Results																
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	21,500	3,950	17,500	<35	102,000	59	4,720,000	<14
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	----	----	----	----	----	3,710,000	----
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	18,600	2,810	15,800	<35 UJ	110,000	2.5	4,720,000	<14
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	15,400	<1400 UJ	15,400	<35 UJ	110,000	2	5,300,000	<14
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	----	----	----	----	----	----	4,660,000	----
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	18,800	<700	18,800	<35	118,000	27	5,550,000	<14
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	38,500	20,400	18,100	<35	107,000	5.4	5,420,000	41
Post-Construction Performance Monitoring Results																
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	28,000	<700	28,000	<35	103,000	49	5,380,000	20 J
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	18,600	<700	18,600	<35	98,200	4.4	4,460,000 J	25 J
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	19,300	<1,400	19,300	85.8 J	103,000	40.5	4,740,000	20 J
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	33,300	3,220	18,300	37.5 J	106,000	8.8	5,820,000	14 J
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	19,300	<1,400	19,300	139	104,000	----	3,690,000	472
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	12,000	<560	12,000	35.2 J	115,000	34 J	5,650,000	40
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	12,500	<700	12,500	<35	118,000	4.3	6,760,000	24 J
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	14,200	<700	14,200	64.5 J	113,000	2 J	4,260,000	37
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	<1,400	16,800	40.6 J	107,000	3.2	5,840,000	<14
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	12,700	<2,800	12,700	<700	111,000	----	5,740,000	31
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	17,900	<560	17,900	<35	108,000	45 J	5,730,000	19 J
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	18,400	<560	18,400	<35	110,000	6.4 J+	4,340,000	24 J
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	22,200	4,020	18,200	<35	111,000	69.6 J	3,470,000	28 J
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	22,200	<1,400	18,100	39.3 J	112,000	13.7	5,390,000	18 J
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	18,400	<2,800	18,400	718 J	104,000	----	5,660,000	26 J
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	18,100	<700	18,100	<35	107,000	45	5,270,000	<14
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	18,600	<560	18,600	<35	109,000	2.9 J+	4,220,000	24 J
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	18,400	<700	18,400	54.4 J	103,000	26.4 J	4,700,000	26 J
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	23,100	<1,400	18,300	43.6 J	106,000	2.6	5,580,000	23 J
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	18,000	<1,400	18,000	565 J	106,000	----	5,760,000	20 J

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	8,750	<280	8,750	57.7 J	107,000	29	4,390,000	53
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	15,400	5,140	10,300	50.4 J	110,000	31.9	4,170,000	26 J
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	11,000	<700	11,000	56.4 J	102,000	4 J	3,760,000	32
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	14,500	<1,400	11,500	55.9 J	104,000	8.3	4,460,000	20 J
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	9,840	<1,400	9,840	<350	104,000	----	4,690,000	30 J
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,680	2,680 J	<50	37.5 J	22,300	2,500	4,430,000	<14
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	5,110	2,060	3,050	<35	41,800	1,480 J-	4,530,000	<14
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	7,900	7,100 J+	803	60.6 J	25,800	6,130 J	5,850,000	<14
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	12,300	10,500	1,780	<35	30,600	8,980 J	5,190,000	<14
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	7,110	5,290	1,820	137 J+	33,500	----	5,460,000	28 J
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	14,700	5,600	9,090	39.2 J	36,200	2,400	5,630,000	53
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	6,950	2,790 J+	4,160	<35	33,200	12.5 J-	4,500,000	<14
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	5,120	2,300	2,820	56.6 J	32,600	41	4,730,000	<14
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	1,760	<560	1,760	272 J	25,400	17.6 J	3,070,000	<14
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	7,480	4,470	3,010	78 J	27,600	----	3,410,000	<14
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	14,500	14,300	222	74 J	44,500	<0.49	5,400,000	<14
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	6,260	6,260	<50	35.9 J	31,000	12,900 J-	5,150,000	<14
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	9,640	9,640	<50	71.7 J	41,200	4,140 J	5,460,000	<14
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	13,000	13,000 J-	<50	<35 UJ	32,400	20,200 J	5,340,000	16 J
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	11,700	11,700	<50	44.4 J	35,400	----	5,280,000	<14
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	3,120	3,120	<50	46.6 J	22,200	<0.49	6,400,000	<14
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	5,260	4,940	324	<35	19,800 J	25.8	4,140,000	<14
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	5,830	5,450	381	<35	39,400	12.4 J	5,800,000	<14
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	7,720	6,450	1,270	<35	19,700 J	216	5,520,000	<14
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	7,790	3,520	4,270	74.2 J	28,100	----	5,780,000	<14
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	16,800	11,900	4,900	<35	24,900	2.5	4,780,000	<14
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	17,100	12,300	4,820	37.1 J	25,600	----	4,300,000	<14
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	14,000	7,200	6,800	<35	39,300	2.1	5,320,000	<14
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	13,900	6,980	6,940	<35	41,600	----	5,500,000	<14
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,560	6,390	171	<35	17,500 J	2.2	5,460,000	<14
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,480	6,300	176	71.7 J	17,900 J	----	5,420,000	<14
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	7,870	6,650	1,220	49.6 J	23,200	2.3	4,920,000	<14
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	7,650	6,440	1,210	50.9 J	19,800 J	----	4,120,000	<14
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	11,000	9,830	1,160	39.6 J	18,800 J	----	3,600,000	<14
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	10,100	9,070	1,070	<35	16,400 J	----	3,890,000 J-	<14
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	1,750	308	1,440	117	122,000	30	4,700,000	186
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	2,000	526	1,470	432	119,000	19.8	2,280,000	153
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	729 J+	729 J+	<50	266 J+	132,000	21.4	3,490,000	227
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	3,450	<140	3,450	97.4 J	106,000	3.8	4,370,000	79
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	4,410	<140	4,410	77.9 J	104,000	----	2,720,000 J-	59
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	17,700	16,600	1,120	140	38,100	68	7,200,000	<14
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	16,900	13,100	3,840	88.2 J	22,100	2.9 J-	4,710,000	<14
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	16,000	11,100	4,950	61 J	26,200	2.6	5,920,000	<14
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	13,900	7,800	6,080	66.5 J	30,600	3.7	5,560,000	<14

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	9,710	8,590	1,120	<35	22,500	----	5,340,000	14 J
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	11,200	7,410	3,760	40.6 J	31,800	22	6,500,000	<14
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	11,000	6,260	4,740	69.4 J	33,100	19.5	3,400,000	<14
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	30,100	----	----	----
ZTS-MW168	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	9,100	6,080	3,020	63.4 J	30,400	2.9	3,940,000	<14
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	12,900	8,380	4,490	<35	28,800	7.4	5,200,000	<14
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	8,990	8,060	928	39.7 J	22,100	----	5,590,000	<14
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	12,500	4,140	8,400	73.9 J	44,200	----	6,200,000	32
ZTS-MW174	5/26/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	53	----	----
ZTS-MW174	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	11,600	8,360	3,220	36.8 J	25,200	19.9	2,950,000	<14
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	31,500	----	----	----
ZTS-MW174	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	33,500	----	----	----
ZTS-MW174	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	19.8 - 29.5	6,550	6,460	94 J	55.6 J	18,000 J	2.9	3,740,000	<14
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	9,290	6,330	2,960	<35	21,400	2.3	5,410,000	<14
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	7,350	6,620	728	<700	17,600 J	----	5,470,000	<14
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	6,130	4,950	1,180	129	33,800	40	6,700,000	32
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	7,840	6,900	939	59.2 J	23,800	<0.49 UJ	3,190,000	16 J
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	7,360	6,910	449	82.1 J	21,500	2.6	4,370,000	<14
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	10,300	7,840	2,500	<35	20,500	5.9	5,400,000	<14
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	11,400	8,480	2,930	39.9 J	26,000	----	4,630,000	<14
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	18,500 J	<700	18,500 J	<35	102,000	34	6,300,000	<14
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	12,300 J	<700	12,300 J	47.8 J	100,000	----	5,130,000 J-	<14
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	18,600	<700	18,600	<35	105,000	2.2	5,880,000	24 J
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	19,100	<700	19,100	<35	105,000	----	5,320,000	23 J
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	16,200	<700	16,200	45.3 J	105,000	3.1	4,390,000 J	<14
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	16,100	<700	16,100	44.8 J	105,000	----	6,310,000 J	23 J
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	15,800	<700	15,800	48.2 J	104,000	2.7	5,960,000	<14
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	15,900	<1,400	15,900	39.2 J	103,000	----	5,970,000	<14
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	18,500	<2,800	18,500	<700	107,000	----	5,920,000	20 J
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	18,900	<2,800	18,900	<700	80,700	----	5,690,000	20 J
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	13,600	4,480	9,100	53.8 J	45,700	39	6,600,000	16 J
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	10,400	6,720	3,660	<35	28,200	13.8 J-	4,070,000	21 J
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	7,230	6,300 J+	931	48.6 J	24,500	----	5,720,000	15 J
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	8,890	7,070 J+	1,820	<35	20,800	305	5,300,000	<14 UJ
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	10,200	8,930	1,300	319	53,200	----	5,590,000	37
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	8,920	678	8,240	91.5 J	57,900	<0.49	5,380,000	31
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	4,230	2,720	1,510	<35	35,300	3.7	5,730,000	22 J
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	4,550	4,030 J+	520	94.8 J	29,900	1.9	5,640,000	20 J
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	5,250	4,880	373	36.9 J	27,100	13.7	5,290,000	<14
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	7,940	5,560	2,380	<35	25,200	----	3,390,000	<14
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	6,720	<140	6,720	52.3 J	58,900	<0.49	5,580,000	20 J

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	4,630	1,390 J+	3,240	77.8 J	46,300	4.3	5,670,000	20 J
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	4,690	2,870	1,820	78.7 J	38,000	2	5,880,000	19 J
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	6,950	3,260 J+	3,690	47.6 J	44,300	2	5,480,000	18 J
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	6,660	2,730 J	3,930	<35 UJ	41,400	----	5,560,000	<14
Test Area 2A																
Pre-Construction Baseline Results																
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	18,900	<700	18,900	<35	106,000	21	3,540,000	90
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	----	----	8,540,000	----
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	18,900	<700	18,900	<35	118,000	7 J+	5,830,000	<14
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	18,800	<700	18,800	<35	117,000	30	4,720,000	114
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	18,600	<700	18,600	<35	111,000	15	6,030,000	40
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	18,100	<280	18,100	<35	101,000	0.85 J	4,650,000	<14
Post-Construction Performance Monitoring Results																
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	18,900	<700	18,900	43.2 J	107,000	43	5,930,000	26 J
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	18,200	<700	18,200	<35	104,000	21.3	5,740,000	25 J
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	19,800	<1,400	19,800	67.9 J	108,000	1.9	4,180,000	43
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	31,100	<1,400	18,500	46.3 J	105,000	8.7	5,720,000	26 J
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	20,000	<1,400	20,000	<35	104,000	----	5,720,000	33
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	18,800	<700	18,800	36.4 J	114,000	66 J	5,560,000	34
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	19,000	<700	19,000	53.4 J	115,000	----	5,790,000	36
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	19,600	<700	19,600	40 J	110,000	7.5	5,480,000	22 J
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	18,700	<700	18,700	<35	110,000	----	5,810,000	22 J
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	19,700	<1,400	19,700	86.2 J	114,000	4.6	4,180,000	22 J
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	19,700	<1,400	19,700	66.9 J	116,000	----	4,350,000	20 J
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	30,300	<1,400	19,100	57.9 J	112,000	24.2	5,850,000	15 J
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	30,900	<1,400	18,200	61.4 J	112,000	----	5,950,000	25 J
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	19,700	<2,800	19,700	43.3 J	109,000	----	6,060,000	24 J
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	19,900	<2,800	19,900	<35	108,000	----	5,820,000	36
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	19,400	<1,400	19,400	67.1 J	109,000	67 J	5,650,000	31
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	18,700	<700	18,700	<35	108,000	2.5	5,100,000	55 J-
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	19,500	<1,400	19,500	78.4 J	109,000	1.6	4,840,000	35
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	19,400	<1,400	19,400	37.6 J	106,000	2.3	5,800,000	<14
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	19,100	<1,400	19,100	416 J	111,000	----	5,930,000	39
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	19,400	<560	19,400	41.4 J	106,000	26	5,410,000	14 J
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	19,200	<700	19,200	42.8 J	107,000	8.2	5,380,000	39
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	19,400	<1,400	19,400	<35	108,000	<0.49	6,340,000	175
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	28,700	<700	19,200	45 J	108,000	4.2	5,650,000	35
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	19,000	<2,800	19,000	1,360 J	111,000	----	6,060,000	39
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	16,200	<700	16,200	97.8 J	105,000	27	5,240,000	35
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	16,700	<560	16,700	61.2 J	105,000	13 J+	4,240,000	45
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	13,200	<1,400	13,200	90 J	106,000	5.3	3,260,000	40
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	11,100	<700	11,100	78.8 J	108,000	2.3	3,200,000	45
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	17,100	<1,400	17,100	598 J	103,000	----	5,650,000	48
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	16,800	<700	16,800	63 J	93,000	8.2	5,950,000	17 J

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									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	19,200	<700	19,200	<35	101,000	24.3 J-	5,250,000	<14
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	20,200	<1,400	20,200	65.7 J	109,000	14.8	6,040,000	<14
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	19,800	<1,400	19,800	<350	105,000	2.6 J	5,480,000	<14
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	19,800	<560	19,800	39.7 J	108,000	----	4,210,000 J-	<14
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	9,260	5,290	3,970	144	41,900	<0.49	5,210,000	22 J
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	9,750	5,460	4,290	62.4 J	39,200	22,500 J+	4,270,000	28 J
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	12,100	5,850	6,200	87.9 J	49,000	2,400 J	3,980,000	<14
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	10,300	2,550 J+	7,730	44.5 J	57,200	245	5,330,000	<14
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	11,400	5,790	6,120	51.8 J	42,900	----	5,180,000	<14
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	17,800	<700	17,800	349	111,000	1,400	5,500,000	62
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	17,600	<700	17,600	75.6 J	96,400	205 J-	4,600,000	15 J
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	20,800	1,280 J+	19,500	35.8 J	104,000	9.6	3,430,000	15 J
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	19,000	<700	19,000	<35	104,000	2	5,670,000	14 J
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	18,200	<560	18,200	63.7 J	97,200	----	4,360,000	<14
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	19,100	<700	19,100	52.5 J	103,000	23	5,280,000	45
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	19,700	<700	19,700	50.1 J	100,000	34.1 J-	4,880,000	<14
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	20,600	<1,400	20,600	42.4 J	106,000	11.1	6,050,000	32
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	20,200	<700	20,200	<35	107,000	6.8	5,350,000	29 J
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	20,400	<560	20,400	49.9 J	102,000	----	3,840,000	15 J
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	16,300	<700	16,300	92.6 J	94,600	32	5,150,000	51
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	18,700	<560	18,700	65.7 J	96,100	37 J-	5,880,000	32
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	18,300	250 J	18,000	63.5 J	96,200	7	3,780,000	29 J
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	19,200	<1,400	19,200	38.3 J	106,000	2.1	5,630,000	28 J
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	18,200	<560	18,200	61.5 J	96,200	----	3,970,000 J-	16 J
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	16,900	<700	16,900	71.8 J	92,900	28 J	5,330,000	53
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	18,300	<700	18,300	70.1 J	99,900	----	5,130,000	53
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	20,300	<700	20,300	63.3 J	99,600	27.6 J+	4,050,000 J	42
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	18,700	<700	18,700	39.5 J	99,600	----	2,910,000 J	45
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	18,800	<700	18,800	97.7 J	103,000	11.7	6,080,000	44
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	18,400	<700	18,400	69 J	107,000	----	6,420,000	46
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	18,800	<2,800	18,800	59.9 J	105,000	<0.49	5,190,000	29 J
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	18,400	<1,400	18,400	48.8 J	106,000	----	5,260,000	40
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	18,800	<700	18,800	40.3 J	102,000	----	5,690,000	24 J
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	19,100	<700	19,100	64.2 J	103,000	----	5,650,000	25 J
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	14,400	<700	14,400	80.2 J	96,900	54 J	4,710,000	48
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	14,900	<560	14,900	<35	96,700	2.1	5,190,000	34 J+
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	106,000	----	----	----
ZTS-MW203	10/11/2023	FS	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	11/30/2023	N	PM03	2A	Downgradient	5	UMCf	28.3 - 38.0	11,500	<700	11,500	80.1 J	103,000	2.9	5,030,000	53
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	8,180	<1,400	8,180	83.1 J	110,000	<0.49	3,680,000	69
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	13,600	<2,800	13,600	1,610 J	96,500	----	5,490,000	39
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	19,100	<700	19,100	81.6 J	109,000	33 J	5,810,000	76
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	20,500	<700	20,500	63.9 J	99,000	31.2 J+	4,480,000	51
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	22,300	1,320 J+	21,000	64.7 J	109,000	3	3,650,000	36

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									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	18,300	<1,400	18,300	71.4 J	101,000	<0.49	5,050,000	40
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	20,700	<700	20,700	84.8 J	104,000	----	5,550,000	38
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	18,700	<700	18,700	80.1 J	109,000	33	5,670,000	35
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	20,300	<700	20,300	<35	105,000	2.1 J+	4,740,000	33
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	19,000	<700	19,000	83.7 J	108,000	10.7	6,240,000	39
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	18,100	<1,400	18,100	58.7 J	104,000	<0.49	5,570,000	<14
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	19,600	<700	19,600	40.1 J	105,000	----	5,660,000	20 J
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	19,200	<700	19,200	43.1 J	103,000	37	5,370,000	22 J
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	18,400	<700	18,400	<35	96,600	2.1	5,570,000	20 J
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	16,600	<700	16,600	66.3 J	98,000	2.5	5,760,000	21 J
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	25,900	<1,400	14,700	41.7 J	89,700	7.7	5,970,000	<14
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	18,700	<2,800	18,700	<700	104,000	----	5,970,000	19 J
Test Area 2B																
Pre-Construction Baseline Results																
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,020	<140	2,020	<35	85,900	35	3,020,000 J-	73
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	----	----	----	----	----	----	2,730,000	----
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<50	<140	<50	<35	109,000	230	2,420,000	64
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<50	<140	<50	<35	108,000	230	2,460,000	63
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	18,400	<1,400	18,400	<35	100,000	<0.49	4,580,000 J-	<14
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	2,640	<140	2,640	<35	90,500	100	5,970,000	62
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	2,330	<140	2,160	<35	117,000	28	2,950,000	61
Post-Construction Performance Monitoring Results																
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,660	<140	2,660 J-	55.5 J	89,400	160	4,270,000	24 J
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,820	<140	2,820	<35	89,000	2	5,480,000	51
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	2,900	<140	2,900	94.9 J	95,000	1.9	4,400,000	53
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	15,200	<140	2,970	63.5 J	88,000	14.8	6,200,000	21 J
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	3,260	<140	3,260	42.7 J	88,900	----	6,380,000	49
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	403	403	<50	83.6 J	98,600	38 J	4,000,000	38
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<50	<140	<50	43.3 J	71,500	6	4,060,000	67
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	485 J+	485 J+	<50	82.1 J	60,000	5.3	3,130,000	31
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	<140	<140	<50	75.1 J	58,100	4	4,860,000	20 J
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	<50	<140	<50	39.8 J	57,400	----	5,200,000	38
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	16,000	<700	16,000	43.4 J	102,000	37 J	6,400,000	224
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	17,000	<700	17,000	<35	96,300	<0.49	5,690,000	34
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	16,800	1,200 J	15,600	52.1 J	96,500	1.5	4,210,000	29 J
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	17,000	<1,400	6,570	71.5 J	84,700	4.3	5,400,000	42 J-
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	16,300	<140	16,300	<35	98,100	----	5,540,000	33
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	2,450	410 J+	2,040	334	87,700	3.8	5,610,000	141
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	3,460	<140	3,460	109	72,900	<0.49 UJ	5,190,000	39
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	400	285	115	83.4 J	64,500	1.9	4,600,000	60
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	197 J+	197 J	<50	<35	58,500	2.2 J	4,900,000	<14 UJ
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	460	<140	460	<35	58,400	----	561,000	38
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	294	233 J	61.4 J	169	26,900	4,700	4,440,000	<14
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	394	321 J+	73.2 J	137	27,300	----	4,140,000	<14

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	61.6 J	<140	61.6 J	42.3 J	16,800 J	12,200 J-	6,000,000	<14
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	321	321 J+	<50	83.6 J	25,400	3,340	6,120,000	40
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	408 J+	408 J+	<50	77.6 J	18,300 J	1,710	6,190,000	<14
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	328	328	<50	47.6 J	15,400 J	----	5,190,000	<14
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	775	488	287	322	100,000	32	5,100,000	81
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	1,440	190 J	1,250	155	84,800	13.7 J+	3,390,000	134
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	1,570	239 J	1,340	121 J+	85,700	2.8	5,220,000	256
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	1,550	<140	1,550	119 J+	82,900	3.7	5,300,000	82
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	1,810	<140	1,810	83.2 J	75,600	----	4,180,000	63
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	1,250	556	698	1,480	105,000	11	4,920,000 J-	<14
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	2,030	<140	2,030	304	90,600	14.4 J+	4,440,000	244
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	2,210	141 J	2,070	248 J+	93,000	2.8	6,630,000	100
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	2,100	<140	2,100	141	91,100	3.2	5,980,000	139
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	2,600	<140	2,600	166	88,200	----	4,110,000	118
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	3,110	446	2,660	1,480	94,200	37	4,620,000	1,570
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	4,100	215 J	3,880	146	86,800	19.3 J+	4,920,000 J	146
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	3,730	<140	3,730	329 J+	88,800	31.8	6,380,000	<14
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	4,030	<140	4,030	<35	92,200	27.4 J	6,790,000	86
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	4,340	<140	4,340	93.1 J	91,800	----	6,470,000	69
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	1,430 J	241 J	1,190 J	189	123,000	14	4,700,000 J	165
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	1,940 J	230 J	1,710 J	170	123,000	----	3,420,000 J	160
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	863	462 J+	401	151	111,000	19.7 J-	3,400,000	92 J+
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	788	405	383	106	112,000	----	3,200,000	93 J+
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	1,030 J+	629 J+	400	99.8 J	113,000	1.9	2,070,000 J	74
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	1,000 J+	559 J+	443	110 J+	112,000	----	3,020,000 J	70
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	337	<140	337	63.6 J	103,000	2.2	4,130,000	44
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	329	<140	329	57 J	102,000	----	3,780,000	43
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	375	<140	375	74.5 J	97,900	----	4,300,000	57
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	391	<140	391	56.9 J	97,500	----	4,340,000	57
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	3,840	373	3,470	670	96,500	41	6,210,000	676
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	4,020	<140	4,020	243 J+	88,800	3.8	5,920,000	263
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	4,350	<140	4,350	178 J	89,200	<0.49	6,850,000	28 J
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	16,700	<140	4,680	175	89,200	<0.49	6,730,000	197
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	4,830	<140	4,830	121	87,500	----	6,590,000	134
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	257 J	<140	257 J	76.5 J	111,000	28	2,870,000	43
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	414 J	<140	414 J	83.3 J	110,000	----	2,930,000	49
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	81.7 J	<140	81.7 J	44 J	110,000	2.3	2,840,000	33 J-
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	356 J	269 J+	87.3 J	39.6 J	115,000	----	3,100,000	41 J-
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	560 J+	560 J+	<50	80 J	102,000	2.6	2,690,000 J	24 J
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	442 J+	442 J+	<50	70.9 J	99,900	----	2,680,000	25 J
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	<140	<50	52.8 J	104,000	<0.49	3,110,000	<14
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	<140	<50	44.5 J	104,000	----	3,090,000	21 J
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	566 J	<140 UJ	566	66.6 J	102,000	----	2,730,000	18 J
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,100 J	526 J	572	66.8 J	103,000	----	2,960,000	20 J

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Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	11,300	<700	11,300	104	100,000	42	5,300,000	114
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	13,700	<560	13,700	<35	97,400	7.9 J-	3,350,000	44 J+
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	11,100	<140	11,100	73.8 J	102,000	3.3	5,370,000	44
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	12,200	<1,400	10,600	50.4 J	100,000	<0.49	4,900,000	14 J
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	13,400	<1,400	13,400	519 J	99,600	----	5,220,000	42
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	3,970	172 J	3,800	286	94,200	51 J	6,400,000	380
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	4,540	<140	4,540	138	90,800	4.4 J-	6,550,000	151
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	5,610	450 J+	5,160	123 J+	89,400	<0.49	5,530,000	109
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	15,600	<140	4,800	96.9 J	90,200	2.2	6,300,000	109
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	4,730	<140	4,730	69 J	89,600	----	6,520,000	95
Test Area 2C																
Pre-Construction Baseline Results																
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	18,700	<700	18,700	<35	106,000	6 J+	5,590,000	139
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	----	----	----	----	----	----	9,080,000	----
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	17,900	<560	17,900	<35	109,000	1.7 J	3,650,000	<14
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	18,300	<700	18,300	<35	103,000	1.6 J	3,590,000	<14
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	17,900	<280	17,900	<35	111,000	8.8	4,950,000	39
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	18,600	<700	18,600	<35	102,000	----	5,500,000	58
Post-Construction Performance Monitoring Results																
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	18,700	<700	18,700	98.9 J	104,000	29 J	4,390,000	24 J
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	18,400	<700	18,400	50.5 J	102,000	----	5,050,000	24 J
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	19,100	<560	19,100	<35	108,000	<0.49	4,640,000	17 J
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	19,200	<560	19,200	<35	105,000	----	5,020,000	16 J
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	21,500	2,910	18,600	67.9 J	114,000	1.6	3,910,000	24 J
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	22,900	4,190	18,700	67.7 J	114,000	----	3,660,000	27 J
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	24,700	<1,400	18,700	<35	108,000	2.9 J	5,820,000	22 J
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	21,100	<1,400	18,600	<35	108,000	----	5,790,000	25 J
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	19,100	<2,800	19,100	6,460 J	125,000	----	6,130,000	39
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	18,800	<2,800	18,800	2,940 J	106,000	----	5,980,000	39
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	18,200	<700	18,200	60.3 J	102,000	30	5,170,000	22 J
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	19,100	<560	19,100	<35	107,000	3.1	4,590,000	15 J
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	21,600	2,780	18,800	74.7 J	113,000	2.3	4,310,000	25 J
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	22,100	<1,400	18,700	<35	107,000	6.7 J	4,700,000	24 J
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	19,000	<2,800	19,000	1,900 J	108,000	----	5,750,000	33
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	17,100	<700	17,100	96.7 J	107,000	32 J	4,250,000	47
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	17,600	<700	17,600	<35	106,000	18.9	4,650,000	47
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	17,700	<1,400	17,700	61.7 J	118,000	1.8	4,880,000	60
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	17,900	<560	17,900	35.6 J	113,000	<0.49	5,720,000	36
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	18,400	<2,800	18,400	868 J	107,000	----	6,050,000	24 J
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	18,300	<700	18,300	73.5 J	104,000	73	5,470,000	33
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	18,100	<700	18,100	<35	101,000	10.4	5,240,000	37 J-
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	18,900	<1,400	18,900	<35	108,000	3	4,910,000 J-	43
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	17,900	<1,400	17,900	44.9 J	106,000	3.5	5,700,000	22 J
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	18,900	<1,400	18,900	38.9 J	103,000	----	5,540,000	21 J

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	3,860	<140	3,860 J-	143	117,000	26 J	2,090,000	72
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	8,340	<280	8,340	55 J	118,000	15.6	3,540,000	51
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	7,500	<560	7,500	111 J+	111,000	<0.49	3,130,000	46
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	6,870	<280	6,870	95.4 J	118,000	3.1	3,180,000	<14
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	6,900	<2,800	6,900	1,380 J	113,000	----	3,240,000	84
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	11,400	456 J	10,900	89.2 J	70,700	140	4,800,000	32
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	12,600	<700	12,600 J+	55.5 J	74,500	<0.49	4,890,000	38
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	14,500	<1,400	14,500	93.1 J	94,500	----	4,480,000	20 J
ZTS-MW182	11/28/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	----	----	----	----	----	39.4 J	----	----
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	15,600	<560	15,600	257 J	105,000	16.4 J	3,490,000	92
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	14,900	<700 UJ	14,900	48 J	89,900	----	5,720,000 J-	22 J
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	15,700	<700	15,700	96 J	99,800	60	3,710,000	27 J
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	17,800	<700	17,800	79.7 J	94,400	<0.49	4,840,000 J	74
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	18,000	<1,400	18,000	44.7 J	107,000	4.6 J	6,470,000	30 J
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	19,100	<700	19,100	<175	111,000	34.4 J	5,710,000	<14 UJ
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	17,900	<700	17,900	<35	102,000	----	5,720,000 J-	29 J
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	14,700	<700	14,700	97.3 J	85,100	2.7	5,120,000	51
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	16,900	<560	16,900	56.2 J	93,900	16.8 J-	5,710,000	52 J+
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	22,800	4,030 J+	18,800	46.8 J	102,000	2.8	3,920,000	20 J
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	17,400	<700	17,400	<175	98,800	5.1 J	5,630,000	18 J
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	20,900	<1,400	17,000	<35	91,100	----	5,470,000	26 J
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	19,400	<700	19,400	87.9 J	108,000	260 J	7,300,000	479
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	35,700	<560	35,700	60.3 J	104,000	18 J-	3,600,000	41 J+
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	25,600	5,240 J+	20,400	53.7 J	115,000	13	3,710,000	29 J
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	17,800	<1,400	17,800	755	104,000	36.6	4,700,000	<14
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	18,700	<1,400	18,700	61.5 J	103,000	----	5,710,000	34
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	15,800	<700	15,800	141	94,200	900	5,700,000	55
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	16,600	<140	16,600	37.5 J	93,600	15.4	5,430,000	60
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	15,600	<700	15,600	90.5 J	98,500	1.8	6,170,000	38
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	18,100	<1,400	18,100	58.2 J	102,000	6.7	4,980,000	30 J
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	16,600	<1,400	16,600	4,130 J+	111,000	----	5,940,000	76
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	17,200	<700	17,200	114	99,700	13	5,280,000	37
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	19,300	<700	19,300	51.1 J	101,000	30.5 J+	4,020,000	59
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	18,100	<1,400	18,100	107 J+	113,000	4.7 J	6,280,000	27 J
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	19,200	<1,400	19,200	<350	112,000	17.2 J	5,890,000	39 J-
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	18,100	<700	18,100	47.8 J	104,000	----	5,290,000	36
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	249	<140	249	116	127,000	46	1,890,000	75
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	490	162 J	328	77.6 J	124,000	13.6 J-	1,960,000	61 J+
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	450 J+	450 J+	<50	72.3 J	127,000	4.8	1,360,000 J	28 J
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	2,140	<140	2,140	92 J	115,000	3.5	2,170,000	19 J
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	586	425	161	56.7 J	122,000	----	1,910,000 J-	29 J
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	18,100	<700	18,100	123	111,000	11 J	7,800,000	89
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	18,900	<700	18,900	<35	104,000	7.5	5,850,000	41
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	18,100	<700	18,100	71.5 J	107,000	8.5	6,350,000	33

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	CALC	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	SM2540C	SM4500-P-E
									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	19,100	<1,400	19,100	123	112,000	5.7	5,400,000	31
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	19,300	<2,800	19,300	816 J	104,000	----	5,820,000	26 J
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	18,900	<700	18,900	212	116,000	47 J	6,800,000	89
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	18,900	<700	18,900	<35	106,000	12.4	6,300,000	<14
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	18,200	<700	18,200	73 J	109,000	<0.49	6,370,000	28 J
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	21,300	<1,400	18,200	69.6 J	109,000	3.3	5,660,000	22 J
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	19,500	<140	19,500	62.5 J	106,000	----	5,900,000	32
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	19,700	<700	19,700	55.9 J	108,000	880 J	6,300,000	53
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	18,700	<700	18,700	55.1 J	103,000	2	5,180,000	41
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	23,200	4,030	19,200	87.1 J	105,000	3.9	4,330,000	30 J
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	21,100	<1,400	18,100	<35	107,000	3.1	5,720,000	24 J
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	19,800	<140	19,800	35.3 J	107,000	----	5,900,000	29 J
General Vicinity																
Pre-Construction Baseline Results																
LVWPS-MW102A	10/21/2022	N	BL02	NA	Downgradient	30	UMCf	47.0 - 66.6	4,980	337 J	4,640	132 J	89,000	1.8 J	10,600,000	132
LVWPS-MW102B	10/21/2022	N	BL02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	24,700	44,600	<50	199 J	96,300	1.6 J	52,600,000	426
LVWPS-MW107A	10/24/2022	N	BL02	NA	Downgradient	50	Alluvium	24.8 - 34.5	18,000	<700	18,000	<35	106,000	13	5,610,000	<14
LVWPS-MW107B	10/21/2022	N	BL02	NA	Downgradient	50	UMCf	46.0 - 65.8	1,630	1,630	<50	<35	97,100	2 J	5,720,000	<14
LVWPS-MW107C	10/24/2022	N	BL02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	638	638	<50	139	85,700	36	80,600,000	537
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	----	----	----	----	----	----	3,360,000	----
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	5,650	<140	5,650	<35	94,100	<0.49	4,510,000	89
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	----	----	----	----	----	----	3,050,000	----
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	12,600	616	12,000	131	96,500	4.9	7,670,000	316
Post-Construction Performance Monitoring Results																
LVWPS-MW102A	5/30/2023	N	PM01	NA	Downgradient	30	UMCf	47.0 - 66.6	4,950	205 J	4,740	124	92,300	47	11,300,000	53
LVWPS-MW102A	8/23/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	4,980	184 J	4,800	46 J	91,800	2.4	11,200,000	102 J+
LVWPS-MW102A	10/11/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	99,900	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	NA	Downgradient	30	UMCf	47.0 - 66.6	5,540	319	5,220	135 J+	91,200	2.2	5,240,000	42
LVWPS-MW102A	2/27/2024	N	PM04	NA	Downgradient	30	UMCf	47.0 - 66.6	5,130	340 J	4,790	115	92,200	3.1	7,660,000	75
LVWPS-MW102A	5/23/2024	N	PM05	NA	Downgradient	30	UMCf	47.0 - 66.6	5,620	300 J+	5,320	204	89,900	----	11,000,000	86
LVWPS-MW102B	5/26/2023	N	PM01	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	485	485	<50	115	100,000	45	64,600,000	405
LVWPS-MW102B	8/23/2023	N	PM02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	4,730	4,730	<50	456	102,000	7.9	66,200,000	418
LVWPS-MW102B	12/1/2023	N	PM03	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	3,670	3,670	<50	542 J+	103,000	2.5	58,500,000	420
LVWPS-MW102B	2/27/2024	N	PM04	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	98 J	<140 UJ	98 J	127	101,000	2.2	----	431
LVWPS-MW102B	5/23/2024	N	PM05	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	157	157 J	<50	140	96,600	----	25,500,000 J-	437
LVWPS-MW107A	5/23/2023	N	PM01	NA	Downgradient	50	Alluvium	24.8 - 34.5	9,370	6,360	3,010	<35	32,600	<0.49	3,490,000	<14
LVWPS-MW107A	8/24/2023	N	PM02	NA	Downgradient	50	Alluvium	24.8 - 34.5	8,860	7,270	1,590	<35	23,500	11.9	5,150,000	<14
LVWPS-MW107A	11/30/2023	N	PM03	NA	Downgradient	50	Alluvium	24.8 - 34.5	8,840	7,810	1,030	77.5 J	21,800	1.7	5,320,000	16 J
LVWPS-MW107A	2/22/2024	N	PM04	NA	Downgradient	50	Alluvium	24.8 - 34.5	9,370	7,950	1,420	121	40,500	2.3	4,460,000	<14
LVWPS-MW107A	5/28/2024	N	PM05	NA	Downgradient	50	Alluvium	24.8 - 34.5	11,200	7,310	3,920	57.9 J	24,600	----	3,130,000	<14
LVWPS-MW107B	5/23/2023	N	PM01	NA	Downgradient	50	UMCf	46.0 - 65.8	423	423	<50	38.9 J	94,400	7.9	4,210,000	<14
LVWPS-MW107B	8/24/2023	N	PM02	NA	Downgradient	50	UMCf	46.0 - 65.8	1,150	765	386	49.9 J	80,900	4.3	2,830,000	52
LVWPS-MW107B	12/1/2023	N	PM03	NA	Downgradient	50	UMCf	46.0 - 65.8	1,100	428	675	229 J+	67,800	2.4	1,430,000	83

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									Nitrogen	Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Total Dissolved Solids	Orthophos-phorus as PO4
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	nmol	µg/L	µg/L
LVWPS-MW107B	2/23/2024	N	PM04	NA	Downgradient	50	UMCf	46.0 - 65.8	420 J+	420	<50	81.2 J	111,000	5.7	5,880,000	18 J
LVWPS-MW107B	5/24/2024	N	PM05	NA	Downgradient	50	UMCf	46.0 - 65.8	300 J+	300 J+	<50	64.5 J	98,300	----	6,230,000	19 J
LVWPS-MW107C	5/23/2023	N	PM01	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<50	<140	<50	84 J	92,800	11	53,400,000	465
LVWPS-MW107C	8/24/2023	N	PM02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<50	<140	<50	74.2 J	118,000	10.8	92,900,000	359
LVWPS-MW107C	12/1/2023	N	PM03	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	4,840	4,840	<50	475 J+	98,800	3.9	64,500,000	451
LVWPS-MW107C	2/23/2024	N	PM04	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	115,000	229 J	89 J	155 J+	96,600	2.6	80,300,000	526
LVWPS-MW107C	5/28/2024	N	PM05	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	212	212 J	<50	138	100,000	----	49,100,000	<14
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	5,520	<280	5,520	35.2 J	95,700	39	4,660,000	18 J
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	5,740	<140	5,740	64 J	101,000	9.1	406,000	28 J
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	5,970	<1,400	5,970	113	96,800	3.1	4,180,000	29 J
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	6,950	<280	6,950	52.5 J	96,700	11.3	4,360,000	21 J
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	6,850	<280	6,850	69.2 J	95,200	----	5,630,000	43
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	11,600	<700	11,600	55.5 J	94,800	17	4,900,000	40
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	13,100	<700	13,100	<35	96,500	3.1	4,510,000	47
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	12,000	<1,400	12,000	82.1 J	102,000	6.6	3,600,000	37
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	8,670	<560	8,670	76.3 J	97,700	24.5	4,660,000	66
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	12,600	<1,400	12,600	<35	98,900	----	3,910,000	25 J

Notes:
1. Distances from the discontinuous or continuous walls are shown as negative values for upgradient monitoring wells, as
bgs - below ground surface
J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be
< The analyte was analyzed for, but was not detected above the level of the reported sample
mg/L - milligram per liter
mS/cm - milliSiemens per centimeter
mV - millivolts
nmol - nanomol
SU - standard units
N - normal field sample
µg/L - micrograms per liter
UMCf - Upper Muddy Creek formation
FD - field duplicate
FS - field split

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Test Area 1A																
Pre-Construction Baseline Results																
ZTS-MW143	10/18/2022	N	BL02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<106	23,700	1,440 J+	33,800	755,000	<18.5	<1.03	52.7
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	----	----	----	44
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	----	----	----	43.7
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	10,200 J	21,700	1,480 J+	33,200	730,000	<18.5	<1.03	47.1 J
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	1,230 J	23,900	1,580 J+	32,200	710,000	<18.5	<1.03	<0.18 UJ
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	----	40.1
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	<106	30,600	1,020 J+	23,000	387,000	<18.5	<1.03	22.2
ZTS-MW125	10/24/2022	FD	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	----	----
ZTS-MW144	10/18/2022	N	BL02	1A	Downgradient	35	Alluvium	24.0 - 34.0	1,270 J+	27,800	1,560 J+	35,100	770,000	<18.5	<1.03	47.2
Post-Construction Performance Monitoring Results																
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	1,200 J+	27,100	1,120 J+	37,300	----	<18.5	<1.03	45.7
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	1,290 J	25,400	1,050	37,100	----	<18.5	<1.03	46.6
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	1,170 J	27,800	1,140	29,800	----	<18.5	<1.03	49.4
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	1,090	27,900	890 J	38,700	----	<18.5	<1.03	53.7
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	1,180 J	26,200	1,140 J+	35,300	----	<18.5	<1.03	48
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	970 J	27,200	1,350 J+	33,100	----	<18.5	<1.03	47.1
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	1,200 J	25,400	1,070	34,900	----	<18.5	<1.03	50.4
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	1,130 J	25,600	1,300 J+	35,300	----	<18.5	<1.03	48.7
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	10,700	25,300	1,160	35,800	----	<18.5	<1.03	52.3
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	1,090 J	25,600	2,540	32,400	----	23.7 J	<1.03	47.3
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	392 J	31,300	571 J	31,200	----	<18.5	<1.03	7.45
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	773 J	28,700	671 J	30,600	----	<18.5	<1.03	10.8
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	469 J	27,000	779 J	31,900	----	<18.5	<1.03	10.8
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	781 J	27,000	145 J	28,100	----	<18.5	<1.03	5.64
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	653 J	27,300	415 J	31,800	----	<18.5	<1.03	8.42
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	955 J	26,600	1,320 J+	35,400	----	<18.5	<1.03	48.3
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1,350 J	24,100	1,420 J+	33,800	----	<18.5	<1.03	48.1
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1,080 J	24,600	1,170 J+	35,800	----	24.5 J	<1.03	51.7
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1,400 J+	25,000	929 J	36,600	----	<18.5	<1.03	51.4
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1,200 J-	25,800	832 J	32,800	----	73.8 J	<1.03	51.8
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1,150 J+	26,600	889 J	35,800	----	<18.5	<1.03	51.7
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1,010 J	23,200	1,240 J+	34,700	----	<18.5	<1.03	49.2
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1,040 J	23,100	1,160 J+	35,900	----	<18.5	<1.03	53.1
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	11,700	23,000	1,200	36,800	----	<18.5	<1.03	53.4
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1,130 J-	24,800	873 J	32,600	----	25 J	<1.03	51.7
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	1,130 J+	6,690	2,380 J+	716	----	<18.5	<1.03	<0.18
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	1,420 J	6,510	1,160 J+	1,270	----	<18.5	<1.03	<0.18
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	970 J	5,650	1,050 J+	1,350	----	<18.5	<1.03	<0.18
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	1,030	5,960	901 J	1,010	----	<18.5	1.23 J	0.188 J
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	1,300 J	7,660	1,120 J+	2,350	----	<18.5	<1.03	<0.18
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,060 J+	5,770	902 J	769	----	<18.5	<1.03	<0.18
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,390 J	6,200	1,020 J+	599	----	<18.5	<1.03	<0.18

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	935 J	4,890	992 J	541	----	<18.5	<1.03	<0.18
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	881 J	4,040	1,080 J+	424	----	<18.5	<1.03	<0.18
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,180 J	5,730	926 J	1,040	----	<18.5	<1.03	<0.18
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	828 J	7,630	1,290 J+	4,160	----	<18.5	<1.03	<0.18
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	897 J	7,420	1,310 J+	3,750	----	<18.5	<1.03	<0.18
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,230 J	5,210 J-	1,090 J+	2,750 J-	----	<18.5	<1.03	0.27 J
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,440 J	5,010 J-	1,080 J+	2,800 J-	----	<18.5	<1.03	0.295 J
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,110 J+	7,620	1,100	6,580	----	<18.5	<1.03	0.666 J
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,120 J+	7,320	1,050 J+	6,270	----	<18.5	<1.03	0.668 J
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	832 J	5,960	907 J	4,320	----	<18.5	<1.03	1.04 J
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	803 J	5,740	928 J	4,200	----	<18.5	<1.03	0.962 J
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,220 J	5,210	1,030 J+	2,790	----	<18.5	<1.03	0.349 J
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,070 J	4,800	1,070 J+	3,120	----	<18.5	<1.03	0.324 J
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	877 J	17,200	1,040	10,000	----	<18.5	<1.03	8.53
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	2,130 J	20,000	1,060 J+	12,600	----	<18.5	<1.03	8.4
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	1,140 J	25,300 J-	1,020 J+	16,000	----	<18.5	<1.03	5.69
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	906 J	24,000	980 J	14,600	----	<18.5	2.31 J	4.62
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	1,410 J	27,200	992 J	20,500	----	<18.5	<1.03	4.35
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,110 J+	14,100	837 J	4,380	----	<18.5	<1.03	0.249
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,110 J+	14,100	829 J	4,590	----	<18.5	<1.03	0.338
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,230 J	24,300	1,180 J+	13,900	----	<18.5	<1.03	4.09
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,290 J	24,100	1,190 J+	14,300	----	<18.5	<1.03	4.57
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,130 J	22,200	1,010 J+	14,600	----	<18.5	<1.03	2.93
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,250 J	22,400	1,010 J+	15,100	----	24.3 J	<1.03	3.27
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,150 J	21,900	971 J	16,400	----	<18.5	<1.03	2.68
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	17,600 J	21,600	935 J	16,500	----	<18.5	<1.03	2.53
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,350 J	25,100	1,210	19,400	----	<18.5	<1.03	2.45
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,250 J	24,900	1,160	19,600	----	<18.5	<1.03	2.43
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	500 J	28,200	312 J	32,000	----	<18.5	<1.03	1.23
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	464 J	26,400	561 J	31,800	----	<18.5	<1.03	2.01
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	425 J	25,700	559 J	31,400	----	<18.5	<1.03	1.05 J
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	21,700	26,700	176 J	28,500	----	<18.5	<1.03	1.99 J
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	657 J	25,800	1,640 J+	30,900	----	<18.5	<1.03	9.45
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	1,250 J+	17,000	1,410 J+	8,680	----	<18.5	<1.03	2.63
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	1,130 J	21,200	1,060 J+	21,400	----	<18.5	<1.03	2 J
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	1,170 J+	22,300	1,270 J+	26,800	----	<18.5	<1.03	1.68 J
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	12,700 J-	23,000	786 J	23,400	----	<18.5	<1.03	1.83 J
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	1,180 J	23,700	1,150 J+	27,500	----	<18.5	<1.03	1.39 J
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	968 J	16,500	976 J	13,400	----	<18.5	<1.03	29.6
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,240 J	22,200	1,160 J+	17,300	----	<18.5	<1.03	11.9
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,140 J	25,000	1,010 J+	20,100	----	<18.5	<1.03	10.9
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	931 J	22,000	1,020 J+	17,800	----	<18.5	<1.03	8.8
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,400 J	27,300	896 J	25,600	----	<18.5	<1.03	8.48
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,120 J+	15,300	841 J	6,140	----	<18.5	<1.03	7.5

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,150 J	18,500	1,080 J+	9,720	----	<18.5	<1.03	4.84
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,160 J+	19,000	1,170 J+	13,300	----	<18.5	<1.03	4.85
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,210	21,300	969 J	17,600	----	<18.5	<1.03	5.97
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,020 J	24,000	1,200 J+	19,900	----	<18.5	<1.03	5.02
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,020 J+	22,800	936 J	13,200	----	<18.5	<1.03	6.8
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,300 J	24,100	1,130 J+	20,000	----	<18.5	<1.03	5.39
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,130 J	23,400	1,100 J+	28,600	----	<18.5	<1.03	3.41
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,210	24,400	982 J	25,500	----	<18.5	<1.03	2.91
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,090 J	25,300	1,240 J+	29,100	----	<18.5	<1.03	3.19
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	1,360 J+	26,400	1,450 J+	28,300	----	<18.5	<1.03	30.3
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	1,020 J-	25,700	1,240	36,300	----	<18.5	<1.03	39.5
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	1,170 J	27,700	1,080 J+	35,500	----	<18.5	3.95 J	37.8
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	24,100 J-	26,600	4,230	31,600	----	<18.5	<1.03	40
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	1,240 J	26,700	1,050 J+	33,600	----	<18.5	<1.03	40.4
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	1,230 J+	18,500	1,150 J+	10,500	----	<18.5	<1.03	14.9
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	1,100 J-	17,400 J-	1,030	15,200	----	<18.5	<1.03	16.3
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	1,240 J	20,300 J-	1,250 J+	21,000	----	<18.5	<1.03	14.9
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	17,000 J-	17,500	2,990	16,900	----	<18.5	<1.03	15
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	1,050 J	22,100 J-	1,220 J+	22,100	----	<18.5	<1.03	12.9
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	1,130	16,100	942 J	14,700	----	<18.5	<1.03	17.3
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	1,070 J	15,900	1,060 J+	11,000	----	<18.5	<1.03	12.9
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	1,230 J	20,500	1,240 J+	16,300	----	<18.5	<1.03	18.9
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	6,430	15,800	1,090	16,800	----	<18.5	<1.03	17.6
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	1,110 J	22,100	866 J	17,500	----	<18.5	<1.03	14.9
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	1,010 J+	29,200	1,120 J+	25,000	----	<18.5	2.04 J	8.4
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	1,120 J	23,700	1,020 J+	26,100	----	<18.5	<1.03	24
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	952 J	25,100	1,110 J+	28,000	----	<18.5	<1.03	26.9
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	6,570	22,200	1,060	29,400	----	<18.5	<1.03	26.4
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	1,160 J	25,700	764 J	26,400	----	<18.5	1.6 J	22.7
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	1,130 J	21,500	1,280 J+	21,300	----	<18.5	<1.03	32.5
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	976 J	22,500	1,440	25,700	----	<18.5	<1.03	29.9
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	1,110 J	22,900	1,310 J+	29,400	----	<18.5	<1.03	27.8
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	1,350 J+	21,100 J-	1,040	29,800	----	<18.5	<1.03	27.7
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	1,180 J	23,500	881 J	28,300	----	<18.5	<1.03	31.7
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	1,120 J+	16,800 J-	1,280 J+	22,800	----	<18.5	<1.03	34.2
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	977 J	20,800	946 J	20,400	----	<18.5	<1.03	29.7
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	952 J	20,700	904 J	20,000	----	<18.5	<1.03	28.3
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	1,070 J	22,000	1,160 J+	20,000	----	<18.5	<1.03	30.4
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	1,070 J	22,800	1,230 J+	20,200	----	<18.5	<1.03	30.2
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	1,350 J	22,900	2,550 J	17,700	----	<18.5	<1.03	29.4
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	23,600 J	22,700	1,510 J	17,700	----	<18.5	<1.03	30.4
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	996 J	23,100	949 J	21,700	----	22.8 J	<1.03	30
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	40,900 J	22,200	814 J	21,900	----	22.6 J	<1.03	30
Between Test Area 1A and Test Area 1B																

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Pre-Construction Baseline Results																
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<106	25,800	<102 UJ	25,100	559,000	<18.5	<1.03	16.3
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,390 J+	29,800	1,590 J+	25,000	727,000	<18.5	<1.03	23.1
Post-Construction Performance Monitoring Results																
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1,950 J-	31,500 J-	2,150 J+	11,300	----	53.1 J	<1.03	2.25
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	602 J	26,400	453 J	31,300	----	<18.5	<1.03	2.31
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	582 J	25,400	278 J	25,800	----	<18.5	<1.03	1.57 J
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	416 J	27,000	653 J	24,400	----	<18.5	<1.03	2.55
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	799 J	27,400	906 J	23,900	----	<18.5	<1.03	1.93 J
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,310 J+	31,100	1,010 J+	28,900	----	<18.5	<1.03	8.3
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	718 J	29,700	609 J	32,800	----	<18.5	<1.03	0.586 J
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	221 J	26,300	779 J	32,700	----	<18.5	<1.03	0.457 J
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	19,700 J-	27,300	290 J	28,300	----	<18.5	<1.03	0.392 J
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	485 J	28,100	603 J	30,800	----	<18.5	<1.03	0.373 J
Test Area 1B																
Pre-Construction Baseline Results																
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	1,270 J+	22,800	1,700 J+	39,300	765,000	<18.5	<1.03	59.9
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	----	----	----	----	----	----	37.3
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	1,390 J+	25,500	1,830 J+	40,000	796,000	<18.5	<1.03	52.4
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	1,620 J+	24,900	1,670 J+	39,800	797,000	<18.5	<1.03	58.1
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	----	----	----	----	----	----	----	29.7
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	2,230 J+	24,400	2,430 J+	34,100	791,000	<18.5	<1.03	40.7
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	1,600	27,100	1,800 J+	34,400	780,000	<18.5	<1.03	51.2
Post-Construction Performance Monitoring Results																
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	1,190 J+	24,600	1,550 J+	39,800	----	<18.5	<1.03	52.2
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	1,330 J	23,400	1,450 J+	37,800	----	<18.5	<1.03	49.9
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	1,260 J	22,600	1,450 J+	39,400	----	<18.5	<1.03	54.9
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	1,520 J	23,400	3,500	33,800	----	<18.5	<1.03	55.4
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	1,320 J-	23,500	1,020	4,600	----	<185	<10.3	<1.8
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	1,100 J+	28,500	986 J	43,400	----	<18.5	<1.03	64.4
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	1,210 J	27,000	1,080 J+	44,800	----	<18.5	<1.03	64.4
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	1,090 J+	22,700	1,240 J+	42,600	----	<18.5	<1.03	64.3
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	19,400 J-	22,900	1,190 J+	36,700	----	<18.5	<1.03	66.5
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	1,140 J	26,000	1,150 J+	40,600	----	<18.5	<1.03	59.5
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	1,510 J+	26,100	1,450	40,600	----	<18.5	<1.03	43
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	1,610 J	25,100	1,960	40,700	----	<18.5	<1.03	45.4
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	1,310 J	22,700	1,430 J+	40,200	----	<18.5	<1.03	43.5
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	20,900 J-	24,800	1,250 J+	34,900	----	<18.5	<1.03	50.9
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	1,280 J	24,000	1,240 J+	37,800	----	113	<1.03	42.3
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	1,500 J+	24,600	1,230	41,200	----	<18.5	<1.03	49.6
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	1,540 J	24,800	1,350	41,000	----	<18.5	<1.03	52.9
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	1,110 J+	22,300	1,370 J+	39,500	----	<18.5	<1.03	48.3
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	19,900 J-	22,600	985 J	35,100	----	<18.5	<1.03	54.4
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	1,340 J	24,000 J-	1,030 J+	37,900	----	<18.5	<1.03	54

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	997 J	24,800	851 J	37,800	----	<18.5	<1.03	31.3
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	1,130 J	24,300	1,300	39,500	----	<18.5	<1.03	38.5
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	980 J	21,600	1,050 J+	37,900	----	<18.5	<1.03	37.7
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	16,100 J-	23,300	647 J	33,400	----	<18.5	<1.03	40.8
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	911 J	23,300	629 J	36,200	----	<18.5	<1.03	37.1
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	922 J	3,310	1,310 J+	323 J+	----	<18.5	<1.03	<0.18
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	1,620 J	8,150	964 J	5,460	----	50.9 J	<1.03	0.307 J
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	1,140 J	2,110	1,160 J+	371	----	<18.5	<1.03	<0.18
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	949 J	1,440	1,070 J+	287	----	<18.5	<1.03	<0.18
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	1,160 J	1,860 J+	1,300 J+	209	----	25.1 J	<1.03	<0.18
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	1,460 J+	8,280	1,720 J+	720	----	<18.5	<1.03	0.214 J
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	1,760 J	7,200	1,280 J+	950	----	<18.5	<1.03	0.198 J
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	1,200 J+	5,670	1,220	815	----	<18.5	<1.03	0.184 J
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	1,370	4,360	1,050	436	----	<18.5	<1.03	29.8
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	1,220 J	4,440	1,370	605	----	<18.5	<1.03	0.223 J
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	1,200 J+	752 J	1,060	222	----	<18.5	<1.03	0.221 J
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	1,610 J	1,470 J+	1,110 J+	236 J+	----	<18.5	<1.03	<0.18
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	1,030 J	1,000	1,010 J+	244	----	<18.5	<1.03	<0.18
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	885 J	892 J	1,060 J+	227	----	<18.5	<1.03	<0.18
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	1,220 J	1,910 J+	1,160 J+	147 J	----	<18.5	<1.03	0.249 J
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	1,380 J+	4,820	960 J	2,540	----	<18.5	<1.03	3.49 J+
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	3,140 J	2,970 J+	1,150 J+	2,700 J+	----	<18.5	<1.03	2.47
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	1,300 J+	1,960	1,260 J+	2,510	----	<18.5	<1.03	3.2
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	1,040 J+	2,620	1,280 J+	2,390	----	<18.5	<1.03	2.83
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	1,150 J	5,010	1,410 J+	2,070	----	<18.5	<1.03	1.69 J
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,210	3,910	1,370 J+	8,940	----	<18.5	<1.03	15
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,170	4,370	1,390 J+	9,140	----	<18.5	<1.03	15.2
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,550 J	8,460	1,210 J+	4,840	----	<18.5	<1.03	6.07
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,500 J	8,640	1,650 J+	4,780	----	<18.5	<1.03	5.87
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,130 J+	2,400	1,200 J+	3,250	----	<18.5	<1.03	4.09
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,140 J+	2,480	1,180 J+	3,230	----	56.4 J	<1.03	4.05
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,270 J+	3,540	1,100 J+	4,020	----	<18.5	<1.03	4.18
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,220 J+	3,530	1,090 J+	3,930	----	<18.5	1.75 J	4.21
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,080 J	2,470	993 J	5,290	----	<18.5	<1.03	7.78
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	1,060 J	2,240	996 J	4,880	----	<18.5	<1.03	6.94
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	1,750 J+	29,300	1,410	24,900	----	<18.5	11.5	13
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	2,390 J	27,000	2,510 J+	23,600	----	<18.5	17	11.3
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	3,420	31,300	4,060	26,600	----	<18.5	7.01	10.6
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	543 J	24,000	407 J	27,800	----	<18.5	<1.03	18.7
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	837 J	23,000	444 J	29,600	----	<18.5	<1.03	22.5
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	1,250 J+	2,040	1,120	10,100	----	<18.5	<1.03	19.1
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	1,480 J	2,720 J+	1,160 J+	7,180	----	<18.5	<1.03	11.1
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	1,090 J	1,620	1,170 J+	6,090	----	<18.5	<1.03	7.35
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	1,270 J+	5,100	1,160 J+	5,440	----	<18.5	2.54 J	4.96

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	1,210 J	3,770	1,380 J+	4,020	----	<18.5	<1.03	3.46
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,350 J+	5,400	1,070 J+	6,130	----	<18.5	<1.03	13.8
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,380 J	6,330	1,180 J+	6,920	----	<18.5	<1.03	8.7
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,250 J+	5,960	1,420 J+	6,210	----	<18.5	<1.03	6.96
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,110	4,580	973 J	5,300	----	<18.5	<1.03	6.54
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,260 J	2,590 J+	961 J	5,340	----	<18.5	<1.03	6.78
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	1,500 J+	9,940	1,370 J+	9,430	----	<18.5	<1.03	18.6
ZTS-MW174	5/26/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	1,320 J+	4,560	1,200 J+	7,540	----	<18.5	<1.03	11.2
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	19.8 - 29.5	1,220 J+	2,700	1,180 J+	6,820	----	<18.5	<1.03	10.3
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	1,170	3,370	922 J	6,130	----	<18.5	<1.03	8.97
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	1,200 J	2,960 J+	1,330 J+	4,750	----	<18.5	<1.03	7.39
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,410 J+	5,320	1,140	9,490	----	<18.5	<1.03	11.4
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,470 J	3,420 J+	1,230 J+	6,720	----	<18.5	<1.03	8.64
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,210 J+	3,420	1,580 J+	8,230	----	<18.5	<1.03	9.66
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,180	2,890	1,010	5,750	----	<18.5	<1.03	7.17
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	1,140 J	4,630	1,300 J+	6,920	----	<18.5	<1.03	7.25
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,440 J+	25,600	1,170 J+	34,300	----	35.3 J	<1.03	48.6
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,500 J+	25,900	1,140 J+	34,600	----	<18.5	<1.03	44.9
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,370 J-	25,600	1,340	43,400	----	<18.5	<1.03	52.9
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,630 J-	25,500	1,310	43,300	----	<18.5	<1.03	52.7
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,200 J+	17,600	1,300 J+	40,600	----	<18.5	<1.03	50.5
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,240 J	22,200	1,300 J+	40,700	----	<18.5	<1.03	50.4
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,420 J+	22,100	1,130 J+	36,000	----	<18.5	<1.03	54.2
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,340 J+	21,300	1,130 J+	36,100	----	<18.5	<1.03	55.4
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	1,340 J	23,400	1,040 J+	38,600	----	<18.5	<1.03	51
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	21,400 J	23,900	1,080 J+	38,000	----	<18.5	<1.03	52.8
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	1,160 J+	9,820	1,160	9,570	----	<18.5	<1.03	20.7
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	1,420 J	5,420	1,160 J+	10,600	----	<18.5	<1.03	18.4
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	1,100 J	3,280	1,260 J+	9,630	----	<18.5	<1.03	18.9
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	938 J	3,330 J-	1,250 J+	8,630	----	<18.5	<1.03	14.2
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	1,100 J	4,070	1,070 J+	8,090	----	<18.5	<1.03	11.1
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	1,270 J+	11,800	1,550 J+	29,500	----	<18.5	<1.03	46.6
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	1,140 J	7,520	1,070 J+	22,500	----	<18.5	<1.03	39.6
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	1,120 J	5,260	1,150 J+	17,900	----	<18.5	<1.03	32.3
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	1,150 J+	4,930	1,640 J+	17,100	----	<18.5	<1.03	36.8
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	1,150 J-	3,990	925 J	13,800	----	<18.5	<1.03	34.8
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	1,200 J+	13,200	2,270 J+	34,000	----	<18.5	<1.03	51.9

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	1,190 J	10,000	1,140 J+	27,600	----	<18.5	<1.03	47.5
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	1,140 J	7,460	1,290 J+	22,800	----	<18.5	1.81 J	43.7
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	9,920	8,240	1,140	23,600	----	<18.5	1.08 J	47.8
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	1,230 J	8,630	935 J	20,700	----	<18.5	<1.03	40.7
Test Area 2A																
Pre-Construction Baseline Results																
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	1,690 J+	21,300	2,240 J+	39,200	793,000	<18.5	<1.03	52.4
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	----	----	----	36.1
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,120 J	23,400 J-	2,050	41,400	818,000	<18.5	<1.03	48.8
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	1,840 J+	20,400 J-	2,060 J+	36,500	770,000	<18.5	<1.03	44.5
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	1,740 J+	25,200	2,030	37,500	795,000	<18.5	<1.03	29.8
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	1,640 J-	22,700	1,580 J	3,520	69,300	<18.5	<1.03	56.5
Post-Construction Performance Monitoring Results																
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	2,010 J+	25,700	1,820 J+	32,800	----	27.1 J	<1.03	53.1
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	1,270 J-	24,400	1,290	41,800	----	<18.5	<1.03	58.5
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	1,360 J	23,400	1,500 J+	39,400	----	<18.5	<1.03	59.3
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	24,100	23,800	1,250 J+	33,100	----	<18.5	<1.03	59.9
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	1,220 J	23,800	1,210 J+	31,800	----	<18.5	<1.03	59.5
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	1,630 J+	27,800	1,730 J+	36,000	----	<18.5	<1.03	42.9
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	1,670 J+	27,800	1,720 J+	36,700	----	<18.5	<1.03	44
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	1,410 J-	26,800	1,340	42,100	----	<18.5	<1.03	50.9
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	1,350 J-	26,600	1,320	42,400	----	<18.5	<1.03	51.7
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	1,410 J	26,600	1,720 J+	39,800	----	<18.5	<1.03	51.7
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	1,400 J	26,200	1,630 J+	39,000	----	<18.5	<1.03	52.9
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	25,800	26,100	1,200 J	33,100	----	<18.5	<1.03	54.2
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	25,700	25,300	5,670 J	32,200	----	32 J	<1.03	52.3
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	1,390 J	24,600 J-	1,240 J+	31,300	----	<18.5	<1.03	48.3
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	1,430 J	24,200 J-	1,290 J+	31,400	----	<18.5	<1.03	47.6
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	1,520 J+	26,000	1,640 J+	36,200	----	<18.5	<1.03	48.1
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	1,310 J	24,900	1,370 J+	39,400	----	<18.5	<1.03	50.9
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	1,310 J	25,000	1,490 J+	39,600	----	<18.5	<1.03	56.9
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	1,330 J-	23,700	1,370 J+	33,800	----	<18.5	<1.03	52.4
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	1,300 J	24,100	1,530 J+	36,800	----	<18.5	<1.03	47.5
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	1,420 J+	26,000	1,670 J+	35,000	----	<18.5	<1.03	52.3
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	1,440 J	24,500	1,290 J+	40,000	----	<18.5	<1.03	54.5
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	470 J	22,700	1,460 J+	39,300	----	<18.5	1.41 J	54.5
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	1,650 J+	23,000	1,420 J+	33,200	----	<18.5	<1.03	61.7
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	1,390 J	25,000	1,410 J+	36,600	----	<18.5	<1.03	44.9
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	510 J	25,500	1,600 J+	34,300	----	<18.5	<1.03	41.8
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	1,240 J	24,400	1,440	38,900	----	<18.5	<1.03	45.2
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	986 J	23,400	1,230 J+	38,000	----	<18.5	1.09 J	35
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	24,100	22,800	906 J	38,800	----	<18.5	1.08 J	29.3
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	1,140 J	23,900	1,250 J+	37,500	----	<18.5	<1.03	43.5
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	1,620 J+	21,900	1,830 J+	29,600	----	<18.5	<1.03	35.2

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	2,020 J	24,200	1,340 J+	37,000	----	<18.5	<1.03	50.2
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	1,340 J	23,400	1,180 J+	35,600	----	<18.5	<1.03	59.4
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	1,080 J+	24,200 J-	1,350 J+	34,400	----	<18.5	<1.03	53.5
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	1,570 J	24,000 J-	1,130	34,500	----	<18.5	<1.03	56.3
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	1,240 J+	6,990	2,010 J+	7,120	----	69.1 J	<1.03	3.5
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	1,390 J+	7,050	1,320 J+	8,050	----	<18.5	<1.03	4.83
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	1,320 J+	8,830	1,390 J+	11,800	----	<18.5	<1.03	11.4
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	1,370	11,700	1,090	15,300	----	<18.5	<1.03	16.4
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	1,190 J	8,190	1,340 J+	12,800	----	<18.5	<1.03	14.8
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	1,340 J+	24,400	1,670 J+	36,100	----	<18.5	<1.03	43.9
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	1,930 J	22,800	1,620 J+	34,500	----	<18.5	<1.03	44.7
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	1,410 J+	23,200	1,640 J+	35,900	----	<18.5	<1.03	53
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	1,360	23,900	1,050	33,300	----	<18.5	<1.03	50.6
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	1,400 J	23,600	1,120	31,300	----	<18.5	<1.03	49.4
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	1,190 J+	23,800	2,430	39,100	----	<18.5	<1.03	56.4
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	1,850 J	23,500	1,350 J+	37,300	----	27.1 J	<1.03	56.9
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	1,320 J	22,700	1,220 J+	35,800	----	<18.5	<1.03	64
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	1,340	23,200	1,020	34,700	----	<18.5	<1.03	57.6
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	1,640 J	24,000	1,250	32,500	----	<18.5	<1.03	54.7
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	1,400 J+	21,700	1,180 J+	35,300	----	<18.5	<1.03	45.6
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	1,660 J	22,200 J-	1,320 J+	34,200	----	<18.5	<1.03	45
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	1,510 J+	22,200	1,400 J+	34,100	----	<18.5	<1.03	47.3
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	1,300	24,400 J-	1,090	31,700	----	<18.5	<1.03	47.5
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	1,420 J	23,500	1,130	30,900	----	<18.5	<1.03	49.9
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,480 J+	23,900	1,200 J+	36,400	----	<18.5	<1.03	49
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,210 J	23,800	1,450 J+	37,500	----	<18.5	<1.03	48.8
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,550 J	24,300	1,440 J+	35,500	----	<18.5	<1.03	44.7
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,570 J	24,400	1,430 J+	35,800	----	<18.5	<1.03	47.1
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,250 J+	23,500	1,310 J+	38,800	----	<18.5	<1.03	51.3
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,320 J	22,700	1,340 J+	38,200	----	<18.5	<1.03	48.3
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,460 J-	24,600	1,360	33,700	----	<18.5	<1.03	53
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,310 J-	24,700	1,290	34,000	----	<18.5	<1.03	53.3
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,330 J	23,800	1,410 J+	34,800	----	<18.5	<1.03	50.6
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	1,320 J	23,400	1,360 J+	35,100	----	<18.5	<1.03	50.3
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	1,720 J+	23,500	1,370 J+	33,900	----	<18.5	<1.03	38.6
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	1,620 J	21,300	1,390 J+	37,600	----	<18.5	<1.03	43.1
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	10/11/2023	FS	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	11/30/2023	N	PM03	2A	Downgradient	5	UMCf	28.3 - 38.0	1,060 J+	21,400	1,140 J+	38,400	----	<18.5	<1.03	34.8
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	1,550 J-	24,300	867 J	33,300	----	<18.5	<1.03	26.1
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	1,120 J	22,400	988 J	37,200	----	<18.5	<1.03	44.6
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	1,460 J+	24,800	1,310 J+	38,800	----	<18.5	<1.03	58.1
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	1,530 J	21,500	1,390 J+	35,600	----	<18.5	<1.03	53
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	2,260 J+	24,100	1,430 J+	38,700	----	<18.5	<1.03	62.3

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	1,440 J-	23,700	1,380	34,800	----	<18.5	<1.03	57.8
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	1,370 J	24,000	1,410 J+	35,400	----	<18.5	<1.03	58.2
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	1,400 J+	24,500	1,850 J+	38,900	----	<18.5	<1.03	47
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	1,670 J+	25,000	1,440 J+	35,700	----	<18.5	<1.03	51.3
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	1,290 J	23,700	1,350 J+	40,000	----	<18.5	<1.03	53.7
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	1,230 J-	23,400	1,310	34,300	----	<18.5	<1.03	56.7
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	1,310 J	23,900	1,400 J+	34,300	----	<18.5	<1.03	55.6
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	1,540 J+	24,100	1,920 J+	39,700	----	<18.5	<1.03	56.4
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	1,370 J-	23,600	1,390	42,900	----	<18.5	<1.03	54.4
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	1,360 J+	21,700	1,460 J+	38,800	----	<18.5	<1.03	49.8
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	20,200	19,800	3,700	30,300	----	<18.5	<1.03	57.1
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	1,320 J	23,700	1,050 J+	36,900	----	<18.5	<1.03	57.9
Test Area 2B																
Pre-Construction Baseline Results																
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	1,180 J+	17,600	1,050 J+	28,300	799,000	<18.5	<1.03	77.1
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	----	----	----	----	----	----	----	77.9
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<106	23,800	<102	29,500	303,000	<18.5	<1.03	39
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<106	23,900	<102	29,000	303,000	<18.5	<1.03	37.9
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	1,740 J+	21,200	1,540 J+	36,000	768,000	<18.5	<1.03	50.3
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	<106	18,200	<102	28,000	862,000	<18.5	<1.03	78.1
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<106	25,000	1,680 J+	32,400	388,000	<18.5	<1.03	8.02
Post-Construction Performance Monitoring Results																
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	517 J	20,400	740 J	30,400	----	78.2 J	<1.03	82.5
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	430 J	20,300	451 J	27,800	----	<18.5	<1.03	82.1
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	709 J	19,300	747 J	30,200	----	<18.5	2 J	83.1
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	19,400	19,400	548 J	24,300	----	<18.5	<1.03	87.2
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	379 J	20,500	414 J	24,300	----	<18.5	<1.03	76.5
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	765 J	23,600	758 J	21,200	----	25.2 J	<1.03	7.33
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	524 J	16,800	874 J	27,700	----	<18.5	<1.03	7.12
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	458 J	12,000	378 J	23,600	----	138	1.95 J	17.7
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	5,470 J-	12,300	226 J	20,000	----	<18.5	<1.03	12.5
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	408 J	12,300	441 J	21,400	----	<18.5	<1.03	12.9
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	1,410 J+	24,400	1,250	36,300	----	<18.5	<1.03	51
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	1,370 J-	22,100	1,240	41,200	----	<18.5	<1.03	54.9
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	1,180 J+	21,000	1,140 J+	37,700	----	<18.5	1.18 J	50.8
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	15,000 J-	17,600	521 J	31,700	----	<18.5	<1.03	40.2
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	1,190 J	22,100	1,260 J+	37,100	----	<18.5	2.27 J	54.6
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	1,030 J+	20,600	1,500 J+	25,900	----	<18.5	<1.03	13.7
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	1,300 J	16,800	725 J	30,600	----	<18.5	<1.03	14.4
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	591 J	13,300	536 J	29,200	----	<18.5	<1.03	13.1
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	218 J	11,700	248 J	24,200	----	<18.5	<1.03	11.4
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	657 J	13,300	577 J	24,700	----	21.8 J	<1.03	10.2
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	838 J	4,160 J+	1,070 J+	952	----	<18.5	<1.03	0.503 J
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	577 J	3,990 J+	1,130 J+	956	----	<18.5	<1.03	0.486 J

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Table 2
Groundwater Anaytical Results
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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	901 J	2,510 J+	502 J	1,020	----	<18.5	<1.03	1.12 J
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	619 J	3,240	927 J	842	----	<18.5	1.18 J	2.82
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	302 J	1,670	536 J	782	----	<18.5	1.27 J	2.63
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	565 J	1,540 J-	430 J	615	----	<185	<10.3	3.06 J
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	833 J	25,200	742 J	30,600	----	<18.5	1.11 J	32.6
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	717 J	19,400	657 J	28,600	----	<18.5	<1.03	39.7
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	483 J	18,800	458 J	27,100	----	<18.5	1.35 J	41.7
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	474 J	17,900	355 J	25,900	----	<18.5	<1.03	33.3
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	627 J	18,100	342 J	26,300	----	<18.5	<1.03	41.4
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	735 J	26,000	775 J	28,300	----	28.9 J	<1.03	89.4
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	658 J	20,600	443 J	27,900	----	<18.5	<1.03	70.5
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	431 J	20,800	356 J	25,600	----	<18.5	<1.03	85.9
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	355 J	20,000	379 J	24,200	----	<18.5	<1.03	76.3
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	573 J	20,400	229 J	24,700	----	<18.5	<1.03	78.9
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	1,070 J+	20,800	1,240 J+	27,200	----	<18.5	<1.03	99.9
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	665 J	20,000	560 J	28,200	----	<18.5	<1.03	71.1
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	513 J	20,900	421 J	26,000	----	27.9 J	<1.03	80.6
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	201 J	19,400	314 J	26,000	----	<18.5	<1.03	83
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	477 J	19,900	437 J	26,800	----	<185	<10.3	84
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	1,150 J+	31,900	868 J	29,800	----	<18.5	<1.03	20.8
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	1,270 J+	30,800	901 J	32,900	----	<18.5	<1.03	23.5
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	1,130 J	26,000	643 J	33,000	----	<18.5	<1.03	13.6
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	863 J	26,000	792 J	33,500	----	20.7 J	<1.03	13.6
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	824 J	23,700	889 J	33,200	----	<18.5	<1.03	16.1
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	953 J	20,600	979 J	33,300	----	<18.5	<1.03	15.1
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	727 J	22,600	397 J	29,100	----	<18.5	<1.03	20
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	503 J	22,800	424 J	29,300	----	<18.5	<1.03	19.7
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	564 J	22,200	634 J	31,600	----	<18.5	<1.03	22.8
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	506 J	22,200	609 J	31,500	----	<18.5	<1.03	24.7
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	647 J	22,300	934 J	30,300	----	<18.5	<1.03	114
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	480 J	20,700	652 J	32,200	----	<18.5	<1.03	96.4
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	1,300 J+	18,300	570 J	29,300	----	<18.5	<1.03	83.8
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	393 J	19,400	283 J	25,600	----	<18.5	<1.03	83.8
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	398 J	19,600	502 J	27,500	----	<18.5	<1.03	78.8
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	369 J	26,400	681 J	33,200	----	<18.5	<1.03	6.79
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	999 J	24,600	690 J	34,300	----	<18.5	<1.03	6.76
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	525 J	24,200	461 J	35,000	----	<18.5	<1.03	3.56
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	472 J	25,200	456 J	35,400	----	<18.5	<1.03	3.8
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	710 J	20,600	472 J	33,500	----	<18.5	<1.03	4.47
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	444 J	22,400	414 J	33,500	----	<18.5	<1.03	4.54
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	286 J	22,500	333 J	29,500	----	<18.5	<1.03	5.07
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	238 J	22,600	264 J	29,500	----	<18.5	<1.03	5.18
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	614 J	23,800	270 J	29,500	----	<18.5	<1.03	6.04
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	577 J	23,700	279 J	29,500	----	<18.5	<1.03	6.24

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	891 J	24,000	1,200	37,000	----	<18.5	<1.03	46.6
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	913 J	22,900	1,490 J+	38,400	----	19.7 J	<1.03	54.6
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	952 J	23,600	869 J	33,600	----	<18.5	<1.03	50.7
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	976 J	22,200	757 J	32,500	----	<18.5	<1.03	33.5
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	1,010 J	23,000	1,360 J+	35,700	----	<18.5	<1.03	44.9
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	646 J	20,800	406 J	27,400	----	<18.5	<1.03	120
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	464 J	20,200	594 J	29,800	----	<18.5	<1.03	93.8
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	624 J	16,600	527 J	29,000	----	20.1 J	<1.03	86.7
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	389 J	19,600	265 J	25,300	----	<18.5	<1.03	82.9
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	492 J	19,800	767 J	25,600	----	<18.5	<1.03	76.1
Test Area 2C																
Pre-Construction Baseline Results																
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,670 J+	22,300 J	1,370	41,400	795,000	<18.5	<1.03	53.4
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	----	----	----	----	----	----	----	26.7
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	1,260 J+	22,900	1,850 J+	21,200 J	2,980 J	<18.5	<1.03	55.6
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	1,760 J+	22,100	1,620 J+	40,200 J	800,000 J	<18.5	<1.03	53.3
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	1,330 J-	24,800 J-	3,430 J+	3,830	73,800	<18.5	<1.03	45.8
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	1,900 J+	22,100	1,150	41,000	788,000	<18.5	<1.03	56.4
Post-Construction Performance Monitoring Results																
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,050 J+	24,500	1,560	40,400	----	<18.5	<1.03	54.2
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,170 J+	24,400	1,130	40,300	----	<18.5	<1.03	54.5
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,410 J	23,500	1,530	40,800	----	<18.5	<1.03	53.9
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,470 J	23,000	1,340	40,700	----	<18.5	<1.03	53.9
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,350 J	24,100	1,490 J+	42,000	----	<18.5	2.03 J	53.5
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,350 J	24,700	1,510 J+	42,200	----	<18.5	<1.03	52.1
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,310 J-	23,000	1,420 J+	34,400	----	<18.5	<1.03	51.9
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,340 J-	22,800	1,500 J+	34,100	----	<18.5	<1.03	51.7
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,400 J-	24,400	1,560 J+	36,900	----	<18.5	<1.03	52.6
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1,320 J-	24,200	1,530 J+	36,900	----	<18.5	<1.03	52.7
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	1,490 J+	25,000	1,200	38,800	----	<18.5	<1.03	53.5
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	1,530 J	23,300	1,370	40,600	----	<18.5	<1.03	54.3
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	1,320 J	25,100	1,410 J+	41,500	----	<18.5	<1.03	54.5
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	1,550 J-	23,100	1,250 J+	34,100	----	<18.5	<1.03	53.2
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	1,530 J-	23,800	1,510 J+	37,000	----	<18.5	<1.03	53.4
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1,320 J+	25,300	1,360	40,500	----	<18.5	<1.03	42.5
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1,320 J	24,200	1,270 J+	41,700	----	<18.5	<1.03	44.7
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1,410 J	25,000	1,330	32,700	----	<18.5	<1.03	53.6
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1,360 J+	23,900	1,400	39,700	----	<18.5	1.85 J	43.1
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	22,900 J-	23,500	1,570 J+	37,300	----	<18.5	<1.03	43.9
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1,500 J+	23,000	1,770 J+	36,000	----	<18.5	<1.03	53.6
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1,360 J	22,900	1,270 J+	40,300	----	<18.5	<1.03	53.6
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1,380 J	23,300	1,340	31,900	----	<18.5	<1.03	43.6
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	13,000 J-	23,000	1,010 J+	33,700	----	<18.5	<1.03	59.6
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1,290 J	23,300	1,340 J+	36,200	----	<18.5	<1.03	55.4

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	476 J	27,900 J-	726 J	35,200	----	<18.5	<1.03	23.2
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	711 J	26,300	588 J	37,400	----	<18.5	<1.03	23.5
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	717 J	24,100	917 J	35,800	----	23.5 J	<1.03	20.2
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	699 J	24,700	831 J	31,700	----	<18.5	1.52 J	16.7
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	804 J	26,200	927 J	34,700	----	<18.5	<1.03	15.3
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	1,380	17,900	3,300	25,000	----	32.8 J	<1.03	24.1
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	1,490 J	16,000 J-	1,460 J+	24,700	----	<18.5	<1.03	25.4
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	1,300 J+	19,900 J-	1,290	31,900	----	<18.5	<1.03	34.3
ZTS-MW182	11/28/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	----	----	----	----	----	----	----	----
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	1,380	21,000	1,100	28,500	----	<18.5	<1.03	30.6
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	1,510 J	20,300 J-	1,360 J+	30,500	----	<18.5	<1.03	36.1
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	1,300	23,000	1,280 J+	32,800	----	<18.5	<1.03	31
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	1,570 J	20,200	1,610 J+	33,200	----	<18.5	<1.03	37
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	1,400 J	24,700	1,440 J+	39,700	----	<18.5	<1.03	46.1
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	1,070 J+	24,300	1,190 J+	34,800	----	34.7 J	6.87 J+	50.7
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	1,410 J	22,800	1,190 J+	32,100	----	<18.5	<1.03	43.3
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	1,360 J+	19,700	1,280 J+	33,400	----	<18.5	<1.03	39.8
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	1,760 J	22,300	1,300 J+	34,900	----	<18.5	<1.03	47.3
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	1,550 J+	21,300	1,360 J+	36,200	----	<18.5	<1.03	47
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	1,250 J+	22,400	1,150 J+	33,300	----	<18.5	<1.03	45.2
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	1,350 J	20,800	1,270 J+	31,700	----	<18.5	<1.03	42.1
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	1,500 J	25,600	1,390	37,500	----	<18.5	<1.03	51.4
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	1,670 J	24,400	1,330 J+	38,300	----	<18.5	<1.03	51.3
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	1,650 J+	23,900	1,340 J+	39,400	----	<18.5	<1.03	55.4
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	1,850 J+	23,200	1,360 J+	34,000	----	<18.5	<1.03	52.3
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	1,430 J	23,900	1,460 J+	35,300	----	<18.5	<1.03	42.5
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	1,380 J+	22,500	1,690 J+	36,400	----	<18.5	<1.03	41.4
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	1,310 J-	20,700	1,210	39,500	----	<18.5	<1.03	48.4
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	1,280 J	21,800	1,310 J+	36,400	----	<18.5	<1.03	43.2
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	1,470 J+	22,700	1,150 J+	33,000	----	<18.5	<1.03	48.7
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	1,280 J	22,400	1,120 J+	35,700	----	<18.5	<1.03	51.1
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	1,420 J+	22,800	1,170 J+	38,400	----	<18.5	<1.03	42
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	1,600 J+	22,000	1,430 J+	36,700	----	<18.5	<1.03	37
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	1,450 J	25,600	1,550 J+	41,200	----	<18.5	<1.03	46.8
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	1,600 J+	24,500	1,370 J+	35,500	----	<18.5	<1.03	46
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	23,800 J-	24,000	1,090 J+	32,900	----	<18.5	<1.03	45.4
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	546 J	30,000	262 J	32,700	----	<18.5	1.43 J	8.83
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	824 J	28,300	351 J	32,900	----	<18.5	<1.03	10.5
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	596 J	27,000	519 J	33,300	----	<18.5	<1.03	6.07
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	866 J	25,100	586 J	30,500	----	<18.5	<1.03	11
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	25,500 J-	28,100	154 J	31,500	----	<18.5	<1.03	4.77
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	1,370 J	25,800	2,060	37,200	----	<18.5	<1.03	46.1
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	1,450 J-	24,300	1,460	41,100	----	<18.5	<1.03	51.5
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	1,370 J	24,000	1,400 J+	39,400	----	<18.5	<1.03	48.9

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	1,370 J-	22,900	1,220 J+	33,700	----	<18.5	<1.03	54.7
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	1,380 J	23,400	1,060 J+	36,700	----	<18.5	<1.03	49.7
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	1,430 J	25,700	1,170	36,200	----	<18.5	<1.03	42.5
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	1,450 J-	25,200	1,350	42,500	----	<18.5	<1.03	48.7
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	1,290 J+	24,500	1,330 J+	40,400	----	<18.5	<1.03	45.2
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	13,400 J-	24,200 J-	1,070 J+	34,400	----	<18.5	<1.03	52.6
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	1,380 J	23,800	1,050 J+	36,800	----	<18.5	<1.03	46.6
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	1,120 J	24,000	2,230	38,900	----	<18.5	<1.03	51.4
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	1,260 J	23,800	1,340 J+	39,700	----	<18.5	<1.03	56.4
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	1,390 J	22,600	1,510 J+	38,800	----	<18.5	<1.03	58.7
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	15,200 J-	23,300	1,060 J+	33,600	----	<18.5	<1.03	57.1
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	1,320 J	23,900	1,030 J+	31,900	----	<18.5	<1.03	53.1
General Vicinity																
Pre-Construction Baseline Results																
LVWPS-MW102A	10/21/2022	N	BL02	NA	Downgradient	30	UMCf	47.0 - 66.6	1,050 J+	19,200	<102	28,000	1,630,000	<18.5	<1.03	71.1
LVWPS-MW102B	10/21/2022	N	BL02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	4,660 J+	18,900	2,650	<1,400	9,820,000	<18.5	<103	<0.18
LVWPS-MW107A	10/24/2022	N	BL02	NA	Downgradient	50	Alluvium	24.8 - 34.5	1,300	24,800	1,850 J+	33,500	772,000	<18.5	<1.03	49.8
LVWPS-MW107B	10/21/2022	N	BL02	NA	Downgradient	50	UMCf	46.0 - 65.8	<106	20,600	<102	24,800	846,000	<18.5	<1.03	<0.18
LVWPS-MW107C	10/24/2022	N	BL02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	4,390	17,300	4,990 J+	4,040	11,200,000	<18.5	<103	2.48
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	----	----	----	----	----	----	----	33.7
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	<106 UJ	21,300	6,160 J+	3,370	77,700	<18.5	<1.03	51.7
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	----	----	----	----	----	----	----	15.6
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	1,120 J-	22,000	<102 UJ	3,160	69,700	<18.5	<1.03	23.4
Post-Construction Performance Monitoring Results																
LVWPS-MW102A	5/30/2023	N	PM01	NA	Downgradient	30	UMCf	47.0 - 66.6	1,250 J+	21,200	1,080 J+	26,200	----	<18.5	<1.03	70.1
LVWPS-MW102A	8/23/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	743 J	19,600	706 J	27,900	----	<18.5	<1.03	74.1
LVWPS-MW102A	10/11/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	NA	Downgradient	30	UMCf	47.0 - 66.6	727 J	19,800	932 J	28,300	----	<18.5	1.19 J	70.4
LVWPS-MW102A	2/27/2024	N	PM04	NA	Downgradient	30	UMCf	47.0 - 66.6	19,700	18,800	762 J	29,200	----	<18.5	<1.03	73
LVWPS-MW102A	5/23/2024	N	PM05	NA	Downgradient	30	UMCf	47.0 - 66.6	781 J	20,200	868 J	27,400	----	<18.5	<1.03	69.5
LVWPS-MW102B	5/26/2023	N	PM01	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	4,020	19,900	4,050	4,960	----	<18.5	<51.5	0.661 J
LVWPS-MW102B	8/23/2023	N	PM02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	3,780 J	19,400	3,240	4,430	----	<185	<10.3	<1.8
LVWPS-MW102B	12/1/2023	N	PM03	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	3,670 J	19,600	3,860 J+	4,810	----	<185	<10.3	<1.8
LVWPS-MW102B	2/27/2024	N	PM04	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	23,100	18,400	3,390	4,690	----	<18.5	<10.3	0.548 J
LVWPS-MW102B	5/23/2024	N	PM05	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	3,630 J	20,100	3,400 J+	4,720	----	<18.5	<1.03	0.476 J
LVWPS-MW107A	5/23/2023	N	PM01	NA	Downgradient	50	Alluvium	24.8 - 34.5	1,120	6,070	1,600 J+	7,410	----	43.7 J	<1.03	11.3
LVWPS-MW107A	8/24/2023	N	PM02	NA	Downgradient	50	Alluvium	24.8 - 34.5	1,100 J-	3,970	1,250	7,240	----	<18.5	<1.03	11.2
LVWPS-MW107A	11/30/2023	N	PM03	NA	Downgradient	50	Alluvium	24.8 - 34.5	1,100 J+	3,760	1,090 J+	6,530	----	<18.5	<1.03	10.1
LVWPS-MW107A	2/22/2024	N	PM04	NA	Downgradient	50	Alluvium	24.8 - 34.5	1,230 J+	3,830	1,110 J+	6,610	----	<18.5	<1.03	11.1
LVWPS-MW107A	5/28/2024	N	PM05	NA	Downgradient	50	Alluvium	24.8 - 34.5	1,290 J-	4,180	2,040	6,090	----	<18.5	<1.03	9.27
LVWPS-MW107B	5/23/2023	N	PM01	NA	Downgradient	50	UMCf	46.0 - 65.8	576 J	24,900	797 J	23,900	----	<18.5	<1.03	1.88 J
LVWPS-MW107B	8/24/2023	N	PM02	NA	Downgradient	50	UMCf	46.0 - 65.8	1,070 J-	16,600	905 J	11,700	----	<18.5	7.76	6.64
LVWPS-MW107B	12/1/2023	N	PM03	NA	Downgradient	50	UMCf	46.0 - 65.8	1,180 J	15,000	1,260 J+	6,810	----	<18.5	13.7	9.03

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	SW9060A/SM 5310B	SW9060A/SM 5310B	SW9060A/SM 5310B	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Dissolved Organic Carbon	Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107B	2/23/2024	N	PM04	NA	Downgradient	50	UMCf	46.0 - 65.8	721 J	21,100	3,580	21,700	----	<18.5	<1.03	1.75 J
LVWPS-MW107B	5/24/2024	N	PM05	NA	Downgradient	50	UMCf	46.0 - 65.8	370 J	22,000	730 J	20,700	----	<18.5	<1.03	1.56 J
LVWPS-MW107C	5/23/2023	N	PM01	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	3,740	21,100	4,430	4,320	----	<18.5	<1.03	0.28 J
LVWPS-MW107C	8/24/2023	N	PM02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	4,780 J-	25,300	4,730	5,190	----	<185	<10.3	5.47 J
LVWPS-MW107C	12/1/2023	N	PM03	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	4,240 J	19,900	4,430 J+	4,740	----	<185	<10.3	<1.8
LVWPS-MW107C	2/23/2024	N	PM04	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	4,520 J	17,900	6,360	3,910	----	<370	<20.6	<3.6
LVWPS-MW107C	5/28/2024	N	PM05	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	4,240 J-	19,800	4,060	34,500	----	<18.5	<1.03	52.6
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	966 J	22,400	1,090 J+	36,600	----	<18.5	<1.03	54.7
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	991 J	21,700	745 J	37,300	----	<18.5	<1.03	53.6
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	659 J	21,500	858 J	36,400	----	24.7 J	<1.03	55.3
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	20,700	20,100	676 J	37,200	----	<18.5	<1.03	56.3
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	719 J	22,200	625 J	30,000	----	<18.5	<1.03	53.2
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	982 J	22,900	911 J	38,100	----	<18.5	<1.03	35.2
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	1,150 J	22,600	1,100 J+	36,600	----	<18.5	<1.03	40.8
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	1,080 J	21,700	1,190 J+	39,300	----	<18.5	<1.03	42.3
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	918 J	21,100 J-	1,070 J+	35,900	----	<18.5	<1.03	38.4
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	19,700 J-	22,200	757 J	34,400	----	194	<1.03	43.1

Notes:
1. Distances from the discontinuous or continuous walls are shown as negative values for upgradient monitoring wells, as
bgs - below ground surface
J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be
< The analyte was analyzed for, but was not detected above the level of the reported sample
mg/L - milligram per liter
mS/cm - milliSiemens per centimeter
mV - millivolts
nmol - nanomol
SU - standard units
N - normal field sample
µg/L - micrograms per liter
UMCf - Upper Muddy Creek formation
FD - field duplicate
FS - field split

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Test Area 1A																
Pre-Construction Baseline Results																
ZTS-MW143	10/18/2022	N	BL02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	20.6	<0.19	2,070	<0.15	641,000	34.1	<0.0596	<1.51
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	545,000	31.6	----	----
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	544,000	30.8	----	----
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	20.7 J	<0.19	2,370 J	<0.15	574,000 J	32.2 J	<0.0596	<1.51
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	87.3 J	<0.19	59.6 J	<0.15	47,400 J	<1.24 UJ	<0.0596	<1.51
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	466,000	16.1	----	----
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	33.2	<0.19	1,560 J+	<0.15	199,000	<1.24	<0.0596	<1.51
ZTS-MW125	10/24/2022	FD	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	----	----
ZTS-MW144	10/18/2022	N	BL02	1A	Downgradient	35	Alluvium	24.0 - 34.0	20.2	<0.19	2,310	<0.15	717,000	25.2	<0.0596	<1.51
Post-Construction Performance Monitoring Results																
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	22	<0.19	2,490	<0.15	637,000	29.5	0.654 J	5.4
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	20.8	<0.19	2,320	<0.15	605,000	34	0.624 J	<1.51
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	20.7	<0.19	2,640	<0.15	613,000	29.9	0.68 J	<1.51
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	21.9	<0.19	2,790	<0.15	638,000	49.2	0.73 J	1.72 J
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	22	<0.19	2,540	<0.15	605,000	32.2	0.718 J	<1.51
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	18.4	<0.19	1,920	<0.15	545,000	30.4	0.516 J	1.59 J
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	18.1	<0.19	2,050	<0.15	538,000	30.3	0.504 J	<1.51
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	18.7	<0.19	1,960	<0.15	566,000	342	1.69 J	3.31 J
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	20.4	<0.19	2,440	<0.15	637,000	31.2	0.613 J	<1.51
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	17.1	<0.19	2,210	<0.15	523,000	31.3	0.529 J	<1.51
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	26.8	<0.19	1,380	<0.15	174,000	<1.24	0.0621 J	1.85 J
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	29.9	<0.19	1,490 J+	<0.15	256,000	<1.24	0.214 J	<1.51
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	28	<0.19	1,570	<0.15	285,000	<1.24	0.196 J	<1.51
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	27.7	<0.19	1,240	<0.15	209,000	<1.24	<0.0596	6.17
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	27.8	<0.19	1,670	<0.15	250,000	<1.24	0.191 J	<1.51
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	16.2	<0.19	2,130	<0.15	556,000	31.5	0.584 J	2.38 J
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	17.7	<0.19	2,350	<0.15	551,000	31	0.529 J	<1.51
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	18.9	<0.19	2,290	<0.15	632,000	33.4	0.556 J	<1.51
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	19	<0.19	2,430	<0.15	638,000	36.1	0.651 J	<1.51
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	17.3	<0.19	2,270	<0.15	571,000	33	0.72 J	3.28 J
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	18	<0.19	2,200	<0.15	573,000	33.9	0.576 J	2.33 J
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	17.8	<0.19	2,380	<0.15	548,000	32.2	0.548 J	4.96 J
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	18.6	<0.19	2,360	<0.15	613,000	35.7	0.562 J	<1.51
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	20.1	<0.19	2,390	<0.15	610,000	41.4	0.608 J	<1.51
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	20.3	<0.19	2,330	<0.15	586,000	37.3	0.6 J	2.86 J
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	27.1	<0.19	1,770	<0.15	474,000	<1.24	0.206 J	<1.51
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	17.4	<0.19	2,040	<0.15	482,000	<1.24	0.27 J	<1.51
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	16.5	<0.19	2,000	<0.15	551,000	<1.24	0.302 J	<1.51
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	15.9	<0.19	2,480	<0.15	545,000	<1.24	0.302 J	<1.51
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	15.4	<0.19	2,110	<0.15	484,000	<1.24	0.349 J	<1.51
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	25.1	<0.19	2,130	<0.15	509,000	<1.24	0.215	<1.51
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	20.6	<0.19	2,070	<0.15	490,000	<1.24	0.24 J	<1.51

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	19.4	<0.19	2,280	<0.15	560,000	<1.24	0.246 J	<1.51
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	18	<0.19	----	<0.15	546,000	<1.24	0.263 J	8.5
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	16.4	<0.19	1,990	<0.15	531,000	<1.24	0.305 J	<1.51
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	29.3	<0.19	2,140	<0.15	524,000	<1.24	0.451 J	<1.51
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	29.2	<0.19	2,180	<0.15	526,000	<1.24	0.44 J	<1.51
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	25.5	<0.19	2,170	<0.15	534,000	<1.24	0.33 J	<1.51
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	26.2	<0.19	2,100	<0.15	538,000	<1.24	0.299 J	<1.51
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	26.5	<0.19	2,230	<0.15	578,000	<1.24	0.419 J	<1.51
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	25.4	<0.19	2,190	<0.15	576,000	<1.24	0.376 J	<1.51
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	22.8	<0.19	----	<0.15	551,000	<1.24	0.325 J	<1.51
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	23.2	<0.19	----	<0.15	549,000	<1.24	0.34 J	6.1
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	22.7	<0.19	2,100	<0.15	525,000	<1.24	0.258 J	<1.51
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	24	<0.19	2,220	<0.15	534,000	<1.24	0.287 J	<1.51
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	24.3	<0.19	2,030	<0.15	558,000	<1.24	0.536 J	<1.51
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	21.9	<0.19	2,090	<0.15	559,000	<1.24	0.442 J	<1.51
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	25.2	<0.19	2,360	<0.15	629,000	<1.24	0.471 J	<1.51
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	22.5	<0.19	----	<0.15	625,000	<1.24	0.534 J	2.17 J
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	20.2	<0.19	2,240	<0.15	596,000	<1.24	0.539 J	<1.51
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	58.5	<0.19	2,140	<0.15	575,000	<1.24	4.51	<1.51
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	58	<0.19	2,300	<0.15	567,000	<1.24	4.29	<1.51
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	22.1	<0.19	2,300	<0.15	555,000	<1.24	0.965 J	<1.51
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	23.2	<0.19	2,360	<0.15	590,000	<1.24	0.968 J	<1.51
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	21.9	<0.19	2,480	<0.15	610,000	<1.24	0.805 J	<1.51
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	22.4	<0.19	2,540	<0.15	683,000	<1.24	0.899 J	<1.51
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	18.9	<0.19	2,620	<0.15	603,000	<1.24	0.792 J	2.38 J
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	19.6	<0.19	2,790	<0.15	610,000	<1.24	0.776 J	<1.51
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	19	<0.95	2,220	<0.15	612,000	<1.24	0.856 J	<1.51
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	18.7	<0.95	2,260	<0.15	609,000	<1.24	0.891 J	<1.51
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	25.9	<0.19	1,380	<0.15	157,000	<1.24	<0.0596	<1.51
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	20	<0.19	1,330	<0.15	174,000	<1.24	0.0696 J	<1.51
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	18.6	<0.19	1,400	<0.15	160,000	<1.24	<0.0596	<1.51
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	18.8	<0.19	1,420	<0.15	186,000	<1.24	0.0682 J	<1.51
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	24.3	<0.19	1,640	<0.15	248,000	<1.24	0.149 J	<1.51
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	33.3	<0.19	2,200	<0.15	537,000	<1.24	1.52 J	2.92 J
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	21.2	<0.19	2,340	<0.15	571,000	<1.24	0.855 J	<1.51
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	21.4 J+	<0.19	2,500	<0.15	577,000	<1.24	0.667 J	<1.51
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	20.1	<0.19	2,300	<0.15	651,000	<1.24	0.801 J	<1.51
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	20.9	<0.19	2,590	<0.15	575,000	<1.24	0.655 J	<1.51
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	18	<0.19	2,100	0.151 J	585,000	<1.24	1.01 J	<1.51
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	16.9	<0.19	2,260	<0.15	550,000	<1.24	0.496 J	<1.51
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	20.5	<0.19	2,530	<0.15	625,000	<1.24	0.743 J	<1.51
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	19.9	<0.19	----	<0.15	613,000	<1.24	0.82 J	2.16 J
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	19.8	<0.19	2,350	<0.15	613,000	1.49 J	0.913 J	<1.51
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	40.3	<0.19	2,170	<0.15	544,000	<1.24	2.76	1.82 J

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Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	23.5	<0.19	2,410	<0.15	570,000	<1.24	1.06 J	<1.51
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	21.8	<0.19	2,270	<0.15	582,000	<1.24	0.755 J	<1.51
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	18.7	<0.19	2,870	<0.15	607,000	1.92 J	0.623 J	2.45 J
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	18.8	<0.19	2,350	<0.15	580,000	<1.24	0.769 J	<1.51
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	20.7	<0.19	2,260	<0.15	566,000	<1.24	1.02 J	<1.51
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	20	<0.19	2,190	<0.15	581,000	<1.24	0.737 J	<1.51
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	21.7 J+	<0.19	2,680	<0.15	584,000	<1.24	0.649 J	<1.51
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	22.8	<0.19	2,750	<0.15	606,000	<1.24	0.757 J	3.28 J
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	23.4	<0.19	2,630	<0.15	614,000	<1.24	0.768 J	<1.51
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	23.7	<0.19	1,930	<0.15	528,000	13.5	0.574 J	2.39 J
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	28.4	<0.19	2,290	<0.15	580,000	25.8	0.564 J	<1.51
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	27.4 J+	<0.19	2,450	<0.15	607,000	20.1	0.528 J	<1.51
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	31.8	<0.19	2,260	<0.15	748,000	24.3	0.642 J	<1.51
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	23.1	<0.19	2,290	<0.15	601,000	29.8	0.642 J	<1.51
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	20	<0.19	2,000	<0.15	552,000	3.26	0.623 J	2.09 J
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	17.5	<0.19	2,310	<0.15	550,000	2.11	0.546 J	<1.51
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	16.4 J+	<0.19	2,360	<0.15	554,000	2.46	0.508 J	<1.51
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	19.3	<0.19	2,320	<0.15	629,000	3.9	0.524 J	<1.51
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	19.7	<0.19	2,360	<0.15	567,000	<1.24	0.536 J	<1.51
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	19.5	<0.19	2,170	<0.15	553,000	<1.24	0.401 J	<1.51
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	18.3	<0.19	2,220	<0.15	535,000	<1.24	0.489 J	<1.51
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	17.9	<0.19	2,410	<0.15	624,000	<1.24	0.553 J	<1.51
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	18.3	<0.19	2,490	<0.15	605,000	<1.24	0.481 J	<1.51
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	15.7	<0.95	2,300	<0.15	547,000	<1.24	0.567 J	<1.51
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	37.2	<0.19	1,360	<0.15	241,000	1.33 J	0.934 J	2 J
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	22.3	<0.19	2,070	<0.15	521,000	14	0.693 J	<1.51
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	21.7	<0.19	2,180	<0.15	556,000	17.9	0.605 J	<1.51
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	24.3	<0.19	2,280	<0.15	557,000	20.4	0.504 J	<1.51
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	24.2	<0.95	2,100	<0.15	461,000	15.4	0.472 J	1.65 J
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	15.1	<0.19	2,060	<0.15	559,000	10.9	0.509 J	2.57 J
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	15.5	<0.19	2,200	<0.15	534,000	13.5	0.521 J	<1.51
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	19.2	<0.19	2,410	<0.15	619,000	13.7	0.47 J	<1.51
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	18.8	<0.19	2,420	<0.15	612,000	18.9	0.487 J	2.46 J
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	18.4	<0.19	2,300	<0.15	601,000	18.7	0.589 J	<1.51
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	15.9	<0.19	2,080	<0.15	540,000	2.47	0.331 J	1.65 J
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	17.1	<0.19	2,190	<0.15	569,000	7.79	0.438 J	<1.51
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	17	<0.19	2,040	<0.15	567,000	6.39	0.445 J	<1.51
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	16.2	<0.19	2,180	<0.15	626,000	6.31	0.461 J	<1.51
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	16.5	<0.19	2,220	<0.15	624,000	6.05	0.463 J	<1.51
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	17.7	<0.19	2,300	<0.15	744,000	10.1	0.482 J	<1.51
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	17.9	<0.19	2,260	<0.15	733,000	10.3	0.482 J	<1.51
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	16.7	<0.19	2,260	<0.15	578,000	10.6	0.479 J	2.26 J
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	14.5	<0.19	2,320	<0.15	566,000	10	0.497 J	<1.51
Between Test Area 1A and Test Area 1B																

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Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Pre-Construction Baseline Results																
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	27.3	<0.19	1,830 J+	<0.15	355,000	<1.24	<0.0596	<1.51
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	33.1	<0.19	2,250 J+	<0.15	436,000	<1.24	<0.0596	<1.51
Post-Construction Performance Monitoring Results																
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	92	<0.19	387	<0.15	101,000	1.5 J	<0.0596	5.59
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	19.2	<0.19	1,400 J+	<0.15	206,000	<1.24	<0.0596	<1.51
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	17.4	<0.19	1,500	<0.15	198,000	<1.24	<0.0596	<1.51
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	35.1	<0.19	1,280	<0.15	187,000	<1.24	0.116 J	<1.51
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	41.2	<0.19	1,280	<0.15	193,000	<1.24	<0.0596	<1.51
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	38.7	<0.19	1,650	<0.15	279,000	<1.24	0.23 J	3.93 J
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	23.5	<0.19	1,750	<0.15	228,000	<1.24	<0.0596	<1.51
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	24 J+	<0.19	1,880	<0.15	227,000	<1.24	<0.0596	<1.51
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	22.2	<0.19	1,660	<0.15	238,000	<1.24	<0.0596	<1.51
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	20.9	<0.19	1,790	<0.15	221,000	<1.24	<0.0596	<1.51
Test Area 1B																
Pre-Construction Baseline Results																
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	27	<0.19	2,540	<0.15	691,000	100	<0.0596	<1.51
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	----	----	----	600,000	43.3	----	----
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	24.7	<0.19	2,460	<0.15	643,000	73.4	<0.0596	<1.51
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	24.1	<0.19	2,550	<0.15	696,000	77.8	<0.0596	<1.51
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	----	----	----	----	632,000	74.4	----	----
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	20.4	<0.19	3,270 J+	<0.15	660,000	74.8	<0.0596	<1.51
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	25.3	<0.19	3,220 J+	<0.15	643,000	86.8	<0.0596	<1.51
Post-Construction Performance Monitoring Results																
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	24.8	<0.19	2,600	<0.15	604,000	86.5	0.683 J	2 J
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	26.7	<0.19	2,750	<0.15	632,000	87.3	0.636 J	<1.51
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	25.9	<0.19	2,650	<0.15	642,000	101	0.631 J	<1.51
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	29.6	<0.19	2,660	<0.15	748,000	93.1	0.579 J	<1.51
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	22.6 J+	<1.9	10,600	<1.5	538,000	<12.4	<0.596	<15.1
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	24.5	<0.19	2,370	<0.15	591,000	37.6	0.705 J	<1.51
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	25.4	<0.19	2,300	<0.15	616,000	38.3	0.63 J	<1.51
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	24.8 J+	<0.19	2,720	<0.15	585,000	71	0.673 J	<1.51
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	28.1	<0.19	2,580	<0.15	671,000	97.6	0.612 J	1.56 J
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	28.1	<0.19	2,580	<0.15	623,000	48.8	0.654 J	1.96 J
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	21	<0.19	2,610	<0.15	635,000	79.6	0.732 J	2.35 J
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	19.5	<0.19	2,840	<0.15	633,000	93.1	0.749 J	<1.51
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	19.5 J+	<0.19	2,890	<0.15	608,000	89.3	0.742 J	<1.51
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	21.9	<0.19	2,590	<0.15	680,000	97.3	0.74 J	<1.51
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	20.8	<0.19	2,660	<0.15	617,000	85.9	0.67 J	2.6 J
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	22.3	<0.19	2,770	<0.15	644,000	81.6	0.631 J	<1.51
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	23	<0.19	2,730	<0.15	620,000	95.9	0.691 J	<1.51
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	22.2 J+	<0.19	2,850	<0.15	601,000	94.5	1.19 J	<1.51
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	24.4	<0.19	2,620	<0.15	666,000	95.7	0.632 J	<1.51
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	22	<0.19	3,000	<0.15	633,000	104	0.653 J	2.4 J

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	19.2	<0.19	1,890	<0.15	408,000	25	0.493 J	<1.51
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	19.1	<0.19	2,000	<0.15	475,000	44.5	0.591 J	<1.51
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	18.8 J+	<0.19	2,170	<0.15	453,000	51.3	0.466 J	1.52 J
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	20.1	<0.19	2,040	<0.15	526,000	57.2	0.468 J	<1.51
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	19.1	<0.19	2,180	<0.15	430,000	48.6	0.423 J	1.68 J
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	32.9	<0.19	2,520	<0.15	567,000	<1.24	0.302 J	<1.51
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	24.7	<0.19	2,160	<0.15	515,000	<1.24	0.428 J	<1.51
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	23.9	<0.19	2,770	<0.15	624,000	<1.24	0.311 J	<1.51
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	24.6	<0.19	----	<0.15	541,000	<1.24	0.228 J	<1.51
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	20.7	<0.19	2,670	<0.15	553,000	<1.24	0.272 J	<1.51
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	24.6	<0.19	2,300	<0.15	559,000	<1.24	0.675 J	<1.51
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	18	<0.19	2,360	<0.15	567,000	<1.24	0.454 J	<1.51
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	16.6	<0.19	2,560	<0.15	597,000	<1.24	0.449 J	<1.51
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	26.1	<0.19	3,080	<0.15	601,000	32.5	0.514 J	<1.51
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	17.3	<0.95	2,670	<0.15	583,000	<1.24	0.354 J	<1.51
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	36	<0.19	2,460	<0.15	573,000	<1.24	0.207 J	<1.51
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	29.5	<0.19	2,310	<0.15	563,000	<1.24	0.149 J	<1.51
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	30.5	<0.19	2,590	<0.15	564,000	<1.24	0.171 J	<1.51
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	31.8	<0.19	----	<0.15	553,000	<1.24	0.108 J	<1.51
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	30	<0.19	2,560	<0.15	550,000	<1.24	0.163 J	<1.51
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	54.9	<0.19	2,170 J+	<0.15	572,000	<1.24	2 J	<1.51
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	24.2	<0.19	2,540	<0.15	525,000	<1.24	0.544 J	<1.51
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	24.8	<0.19	2,590	<0.15	588,000	<1.24	0.552 J	<1.51
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	23.7	<0.19	----	<0.15	552,000	<1.24	0.462 J	<1.51
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	26.8	<0.19	2,490	<0.15	605,000	<1.24	0.614 J	2.9 J
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	19.5	<0.19	2,680	<0.15	603,000	<1.24	0.617 J	<1.51
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	20.1	<0.19	2,620	<0.15	599,000	<1.24	0.594 J	<1.51
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	29.7	<0.19	2,530	<0.15	599,000	<1.24	0.853 J	<1.51
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	30.5	<0.19	2,640	<0.15	599,000	<1.24	0.806 J	<1.51
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	21.9 J+	<0.19	2,580	<0.15	544,000	<1.24	0.456 J	<1.51
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	21.9 J+	<0.19	2,530	<0.15	529,000	<1.24	0.43 J	<1.51
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	21.2	<0.19	2,380	<0.15	551,000	<1.24	0.389 J	<1.51
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	22.9	<0.19	2,590	<0.15	538,000	<1.24	0.406 J	<1.51
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	21	<0.95	2,500	<0.15	603,000	1.55 J	0.37 J	<1.51
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	20.8	<0.95	2,770	<0.15	595,000	<1.24	0.368 J	<1.51
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	54.2	<0.19	1,480	<0.15	316,000	6.45	0.872 J	<1.51
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	38.9	<0.19	1,850	<0.15	278,000	3.36 J+	0.551 J	<1.51
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	32.9	<0.19	1,420	<0.15	246,000	3.03	0.358 J	<1.51
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	21	<0.19	1,500	<0.15	342,000	4.79	0.43 J	<1.51
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	19	<0.95	1,610	<0.15	339,000	6.2	0.236 J	<1.51
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	27.6	<0.19	2,360	<0.15	584,000	<1.24	1.17 J	<1.51
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	31	<0.19	2,690	<0.15	625,000	<1.24	0.638 J	<1.51
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	30.2 J+	<0.19	2,720	<0.15	551,000	<1.24	0.519 J	<1.51
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	30.8	<0.19	2,770	<0.15	578,000	<1.24	0.671 J	<1.51

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	30.7	<0.19	2,750	<0.15	583,000	<1.24	0.494 J	2.29 J
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	21.7	<0.19	2,190 J+	<0.15	588,000	<1.24	0.738 J	<1.51
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	21.5	<0.19	2,560	<0.15	575,000	<1.24	0.549 J	<1.51
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	19	<0.19	2,540	<0.15	520,000	<1.24	0.473 J	<1.51
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	20.9	<0.19	2,580	<0.15	573,000	<1.24	0.407 J	<1.51
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	20.1	<0.19	2,260	<0.15	590,000	<1.24	0.421 J	2.49 J
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	25.8	<0.19	2,270	<0.15	611,000	<1.24	0.601 J	<1.51
ZTS-MW174	5/26/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	19.2	<0.19	2,590	<0.15	536,000	<1.24	0.412 J	<1.51
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	19.8 - 29.5	18.7	<0.19	2,330	<0.15	521,000	<1.24	0.435 J	<1.51
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	19	<0.19	2,640	<0.15	546,000	<1.24	0.5 J	<1.51
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	17.6	<0.19	2,420	<0.15	550,000	<1.24	0.422 J	<1.51
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	22.3	<0.19	2,580	<0.15	571,000	<1.24	0.635 J	1.68 J
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	18.1	<0.19	2,590	<0.15	604,000	1.5 J	0.528 J	<1.51
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	16.4	<0.19	2,340	<0.15	524,000	<1.24	0.385 J	<1.51
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	18.3	<0.19	2,520	<0.15	603,000	<1.24	0.434 J	<1.51
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	18.9	<0.19	2,540	<0.15	563,000	<1.24	0.415 J	<1.51
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	18.3	<0.19	2,690	<0.15	656,000	86.4	0.769 J	<1.51
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	16.8	<0.19	2,260	<0.15	599,000	81	0.753 J	<1.51
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	17	<0.19	2,810	<0.15	660,000	102	0.831 J	<1.51
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	17.4	<0.19	2,700	<0.15	676,000	102	0.832 J	<1.51
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	17.8 J+	<0.19	2,740	<0.15	619,000	78.7	0.669 J	<1.51
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	17.5 J+	<0.19	2,800	<0.15	622,000	77.5	0.679 J	<1.51
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	19	<0.19	2,700	<0.15	656,000	79.2	0.853 J	<1.51
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	20.3	<0.19	2,750	<0.15	663,000	81.1	0.766 J	<1.51
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	17.9	<0.19	2,690	<0.15	637,000	93.3	0.703 J	<1.51
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	18.3	<0.19	2,790	<0.15	649,000	98.2	0.706 J	1.98 J
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	19.5	<0.19	2,510	<0.15	587,000	<1.24	0.418 J	<1.51
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	18.6	<0.19	2,590	<0.15	590,000	2.04 J+	0.47 J	<1.51
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	17	<0.19	2,650	<0.15	590,000	<1.24	0.376 J	<1.51
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	16.2	<0.19	----	<0.15	539,000	<1.24	0.35 J	<1.51
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	18.3	<0.19	2,650	<0.15	526,000	<1.24	0.36 J	<1.51
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	19.9	<0.19	2,620	<0.15	579,000	1.44 J	0.43 J	<1.51
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	21.3	<0.19	2,370	<0.15	577,000	<1.24	0.385 J	<1.51
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	19.2 J+	<0.19	2,500	<0.15	507,000	<1.24	0.323 J	<1.51
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	20.4	<0.19	2,190	<0.15	602,000	<1.24	0.356 J	2.76 J
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	21	<0.19	2,490	<0.15	560,000	<1.24	0.39 J	2.01 J
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	20	<0.19	2,490	<0.15	582,000	4.97	0.379 J	<1.51

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	21.4	<0.19	2,350	<0.15	611,000	4.34	0.404 J	<1.51
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	21.3	<0.19	2,460	<0.15	602,000	3.82 J+	0.404 J	<1.51
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	20.9	<0.19	2,480	<0.15	606,000	17.5	0.449 J	1.9 J
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	20.4	<0.19	2,520	<0.15	589,000	6.64	0.448 J	1.86 J
Test Area 2A																
Pre-Construction Baseline Results																
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	29.1	<0.19	2,710	<0.15	633,000	95.3	<0.0596	<1.51
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	687,000	48.7	----	----
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	27.1	<0.19	3,190	<0.15	702,000	61.7	<0.0596	<1.51
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	39.1	<0.19	2,630	<0.15	662,000	97.6	<0.0596	<1.51
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	39	<0.19	2,970	<0.15	732,000	56.3	<0.0596	<1.51
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	25.8	<0.19	2,660	<0.15	628,000	102	<0.0596	<1.51
Post-Construction Performance Monitoring Results																
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	23.7	<0.19	2,790	<0.15	627,000	89.9	0.681 J	2.43 J
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	23.9	<0.19	2,910	<0.15	635,000	103	0.705 J	<1.51
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	22.1	<0.19	2,770	<0.15	632,000	92.1	0.628 J	<1.51
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	23.4	<0.19	2,700	<0.15	753,000	93	0.597 J	<1.51
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	20.9	<0.19	2,970	<0.15	623,000	102	0.614 J	2.07 J
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	23.2	<0.19	2,600	<0.15	607,000	65	0.713 J	2.26 J
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	24.7	<0.19	2,870	<0.15	657,000	67	0.732 J	<1.51
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	25.2	<0.19	2,860	<0.15	627,000	80.2	0.777 J	<1.51
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	25.4	0.656 J	2,940	0.643 J	633,000	79.2	1.41 J	<1.51
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	24.5	<0.19	2,850	<0.15	671,000	73.6	0.683 J	<1.51
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	24.8	<0.19	2,920	<0.15	677,000	74.3	0.714 J	<1.51
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	24.7	<0.19	2,780	<0.15	739,000	89.1	0.688 J	<1.51
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	25.7	<0.19	2,800	<0.15	753,000	86.2	0.678 J	<1.51
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	23.8	<0.19	3,010	<0.15	651,000	81.1	0.721 J	<1.51
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	23.8	<0.19	2,650	<0.15	666,000	77.9	0.685 J	2.57 J
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	23.4	<0.19	2,920	<0.15	623,000	85.4	0.613 J	1.78 J
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	22.3	<0.19	2,690	<0.15	616,000	90.6	0.664 J	<1.51
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	22.3	<0.19	2,670	<0.15	657,000	86.9	0.631 J	<1.51
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	21.6	<0.19	3,140	<0.15	605,000	87.3	0.61 J	2.4 J
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	20.1	<0.19	3,200	<0.15	619,000	88.5	0.59 J	<1.51
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	24.1	<0.19	2,770	<0.15	598,000	90.7	0.628 J	1.83 J
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	25	<0.19	2,530	<0.15	640,000	94.5	0.678 J	1.52 J
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	23.8 J+	<0.19	2,790	<0.15	603,000	99.2	0.638 J	<1.51
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	24.1	<0.19	----	<0.15	686,000	105	0.686 J	2.8 J
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	22.9	<0.19	2,970	<0.15	583,000	80.4	0.635 J	<1.51
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	21.9	<0.19	2,400	<0.15	558,000	87	0.635 J	1.89 J
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	19.5	<0.19	2,470	<0.15	551,000	87.9	0.636 J	<1.51
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	24.9	<0.19	2,370	<0.15	522,000	73.8	0.493 J	1.72 J
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	20.7	<0.19	1,980	<0.15	474,000	69.9	0.477 J	<1.51
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	18.8	<0.19	2,730	<0.15	554,000	82	0.512 J	<1.51
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	39.3	<0.19	2,350	<0.15	618,000	56.5	0.913 J	2.26 J

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Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	26.7	<0.19	2,720	<0.15	607,000	85.7	0.662 J	<1.51
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	25.9	<0.19	3,060	<0.15	643,000	96.6	0.665 J	<1.51
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	24.6	<0.19	----	<0.15	629,000	91.9	0.613 J	2 J
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	23.4	<0.95	2,870	<0.15	656,000	95.7	0.571 J	1.54 J
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	36.9	<0.19	2,320	<0.15	568,000	1.43 J	0.339 J	4.15 J
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	30.4	<0.19	2,130	<0.15	509,000	3.77	0.284 J	<1.51
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	30.4	<0.19	2,620	<0.15	592,000	8.43	0.428 J	<1.51
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	22.9	<0.19	2,640	<0.15	572,000	15.5	0.483 J	<1.51
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	30.7	<0.19	2,540	<0.15	572,000	13.9	0.43 J	<1.51
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	28.2	<0.19	2,830	<0.15	606,000	72.3	0.639 J	1.77 J
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	30.1	<0.19	2,510	<0.15	617,000	76.6	0.708 J	<1.51
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	26.8	<0.19	2,760	<0.15	633,000	86.6	0.61 J	<1.51
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	23.8	<0.19	2,860	<0.15	624,000	89.8	0.655 J	<1.51
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	23.9	<0.95	2,800	<0.15	618,000	86.6	0.6 J	<1.51
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	26.3	<0.19	2,730	<0.15	626,000	92.1	0.681 J	<1.51
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	24.9	<0.19	2,590	<0.15	625,000	102	0.678 J	3.44 J
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	28.1	<0.19	3,210	<0.15	673,000	113	0.753 J	<1.51
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	21	<0.19	2,820	<0.15	612,000	95.7	0.661 J	1.74 J
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	26.1	<0.95	2,760	<0.15	724,000	97.6	0.833 J	<1.51
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	26	<0.19	2,730	<0.15	630,000	69.8	0.641 J	<1.51
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	24.3	<0.19	2,670	<0.15	615,000	75.3	0.553 J	1.76 J
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	22.4	<0.19	2,800	<0.15	576,000	72.4	0.599 J	<1.51
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	23.7	<0.19	2,870	<0.15	629,000	85	1.1 J	<1.51
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	23.3	<0.95	2,850	<0.15	673,000	81.4	0.61 J	<1.51
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	26.8	<0.19	2,780	<0.15	642,000	83.4	0.697 J	6.52
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	27.1	<0.19	2,700	<0.15	618,000	82.2	0.7 J	6.56
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	23.4	<0.19	2,700	<0.15	597,000	76.5	0.543 J	<1.51
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	25.1	<0.19	2,760	<0.15	615,000	79	0.551 J	<1.51
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	25.6 J+	<0.19	2,990	<0.15	607,000	87.9	0.595 J	<1.51
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	24.7 J+	<0.19	2,890	<0.15	565,000	82.9	0.572 J	<1.51
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	22.2	<0.19	3,000	<0.15	610,000	101	0.685 J	<1.51
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	22.5	<0.19	2,900	<0.15	608,000	103	0.691 J	<1.51
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	24.8	<0.19	2,990	<0.15	647,000	89.1	0.56 J	<1.51
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	23.8	<0.19	2,850	<0.15	654,000	90.9	0.618 J	<1.51
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	18.3	<0.19	2,120	<0.15	584,000	62.7	0.892 J	2.16 J
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	16.2	<0.19	2,230	<0.15	581,000	75.3	0.92 J	<1.51
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	10/11/2023	FS	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	11/30/2023	N	PM03	2A	Downgradient	5	UMCf	28.3 - 38.0	17.7 J+	<0.19	2,210	<0.15	487,000	48	0.586 J	<1.51
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	23.9	<0.19	1,840	<0.15	399,000	41.2	0.509 J	<1.51
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	15	<0.19	2,080	<0.15	629,000	74.1	0.729 J	1.86 J
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	23.8	<0.19	2,870	<0.15	615,000	99.1	0.714 J	6.45
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	23.6	<0.19	2,790	<0.15	612,000	88.1	0.6 J	<1.51
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	25.3	<0.19	2,900	<0.15	608,000	100	0.64 J	<1.51

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	22.2	<0.19	2,980	<0.15	587,000	102	0.68 J	<1.51
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	23	<0.19	2,910	<0.15	634,000	99.2	0.6 J	<1.51
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	24.8	<0.19	2,540	<0.15	604,000	85.9	0.74 J	1.62 J
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	23.7	<0.19	2,740	<0.15	593,000	83.8	0.647 J	2.15 J
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	26 J+	<0.19	2,910	<0.15	585,000	89.3	0.614 J	1.65 J
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	22.9	<0.19	2,870	<0.15	644,000	103	0.742 J	<1.51
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	24.1	<0.19	2,970	<0.15	658,000	96.5	0.691 J	1.56 J
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	25.9	<0.19	2,810	<0.15	628,000	95.8	0.666 J	<1.51
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	22.3	<0.19	2,570	<0.15	643,000	101	0.838 J	<1.51
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	21.7 J+	<0.19	2,660	<0.15	610,000	79.5	0.741 J	<1.51
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	24.8	<0.19	2,130	<0.15	715,000	77.5	0.623 J	<1.51
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	21.9	<0.19	2,630 J+	<0.15	648,000	101	0.615 J	2.44 J
Test Area 2B																
Pre-Construction Baseline Results																
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	12.9	<0.19	1,250	<0.15	464,000	5.13	<0.0596	<1.51
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	----	----	----	----	229,000	10.8	----	----
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	23.5	<0.19	1,110	<0.15	182,000	<24.8	<0.0596	<1.51
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	23.1	<0.19	1,110	<0.15	176,000	<12.4	<0.0596	<1.51
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	28.9	<0.19	2,570	<0.15	785,000	<62	<0.0596	<1.51
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	13.1	<0.19	1,490	<0.15	579,000	<24.8	<0.0596	<1.51
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	38.5	<0.19	1,330	<0.15	258,000	10.2	<0.0596	<1.51
Post-Construction Performance Monitoring Results																
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	10.6	<0.19	1,650	<0.15	465,000	7.38	0.0868 J	2.03 J
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	9.14	<0.19	1,500 J+	<0.15	457,000	6.41	0.0864 J	<1.51
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	10.1	<0.19	1,640	<0.15	462,000	8.01	0.0998 J	<1.51
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	9.95	<0.19	1,490	<0.15	528,000	9.19	0.0827 J	<1.51
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	9.5	<0.19	1,420	<0.15	451,000	8.23	0.0755 J	<1.51
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	52.4	<0.19	870	<0.15	202,000	<1.24	<0.0596	<1.51
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	25.1	<0.19	1,150	<0.15	299,000	<1.24	<0.0596	<1.51
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	45.8	23.1	1,250 J+	12.6	376,000	6.57	34.1	34.7
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	16.9	<0.19	1,100	<0.15	416,000	<1.24	<0.0596	<1.51
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	17.1	<0.19	1,250	<0.15	404,000	<1.24	<0.0596	<1.51
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	22.6	<0.19	2,400	<0.15	628,000	82.9	0.796 J	2.37 J
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	21.6	<0.19	2,600	<0.15	644,000	92.7	0.81 J	<1.51
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	21	<0.19	2,490	<0.15	610,000	74	0.715 J	<1.51
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	20.4	<0.19	1,580	<0.15	606,000	30.6	0.507 J	<1.51
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	20.9	<0.19	2,570	<0.15	664,000	78.5	0.657 J	2.11 J
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	30.4	<0.19	1,240	<0.15	390,000	2.49	0.704 J	<1.51
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	21.4	<0.19	1,460	<0.15	475,000	15.5	0.323 J	<1.51
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	19.3	<0.19	1,180	<0.15	466,000	<1.24	0.344 J	<1.51
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	15.2	<0.19	----	<0.15	425,000	<1.24	0.122 J	<1.51
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	16.9	<0.19	1,140	0.218 J	468,000	5.89	1.01 J	<1.51
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	30.9	<0.19	1,070	<0.15	455,000	<1.24	0.0735 J	<1.51
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	31.3	<0.19	1,110	<0.15	456,000	<1.24	0.0701 J	<1.51

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	28.2	<0.19	1,190	<0.15	437,000	1.29 J	0.307 J	<1.51
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	27.6	<0.19	1,520	<0.15	480,000	<1.24	<0.0596	<1.51
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	24.4	<0.19	----	<0.15	458,000	<1.24	<0.0596	<1.51
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	23.1	<1.9	1,240	<1.5	493,000	<12.4	<0.596	<15.1
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	31.8	<0.19	1,410	<0.15	367,000	<1.24	0.342 J	<1.51
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	19.2	<0.19	1,300	<0.15	384,000	<1.24	0.83 J	<1.51
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	20	<0.19	1,390	<0.15	435,000	<1.24	0.594 J	<1.51
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	18.1	<0.19	1,430	<0.15	415,000	<1.24	0.495 J	<1.51
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	18.6	<0.95	1,480	<0.15	461,000	<1.24	0.603 J	<1.51
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	21.9	<0.19	1,490	<0.15	463,000	<1.24	1.15 J	<1.51
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	13.3	<0.19	1,310	<0.15	433,000	<1.24	0.807 J	<1.51
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	13.7	<0.19	1,720	<0.15	491,000	1.96 J	0.712 J	<1.51
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	12.6	<0.19	1,630	<0.15	473,000	<1.24	0.563 J	<1.51
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	12.4	<0.95	1,520	<0.15	453,000	<1.24	0.615 J	<1.51
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	16.1	<0.19	1,560	<0.15	492,000	2.34	1.05 J	<1.51
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	9.71	<0.19	1,530	<0.15	450,000	2.74	0.532 J	<1.51
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	11.7	<0.19	1,830	<0.15	514,000	2.83	0.425 J	<1.51
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	10.7 J+	<0.19	----	<0.15	494,000	2.72	0.318 J	<1.51
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	12 J	<1.9	1,640	<1.5	549,000	<12.4	<0.596	<15.1
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	37	<0.19	1,510	<0.15	292,000	1.49 J	0.696 J	<1.51
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	40.7	<0.19	1,610	<0.15	337,000	2.4	0.784 J	<1.51
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	23.2	<0.19	1,470	<0.15	274,000	<1.24	0.298 J	<1.51
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	23.7	<0.19	1,520	<0.15	268,000	<1.24	0.308 J	<1.51
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	19.4	<0.19	1,320	<0.15	270,000	1.45 J	0.156 J	<1.51
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	20.6	<0.19	1,420 J+	<0.15	280,000	<1.24	0.234 J	<1.51
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	15.3	<0.19	1,420	<0.15	279,000	<1.24	0.123 J	<1.51
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	16.4	<0.19	1,380	<0.15	288,000	<1.24	0.136 J	<1.51
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	17.3	<0.19	1,490	<0.15	324,000	1.28 J	0.142 J	1.74 J
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	17.2	<0.19	1,390	<0.15	324,000	1.3 J	0.184 J	<1.51
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	13.6	<0.19	1,670	<0.15	523,000	8.72	0.914 J	<1.51
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	12.1	<0.19	1,790	<0.15	505,000	9.05	0.509 J	<1.51
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	10 J+	<0.19	1,710	<0.15	479,000	10.2	0.36 J	<1.51
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	9.93	<0.19	1,920	<0.15	494,000	9.99	0.307 J	<1.51
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	10.9	<0.19	1,790	<0.15	525,000	10.1	0.245 J	1.88 J
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	20.1	<0.19	1,220	<0.15	179,000	<1.24	0.218 J	<1.51
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	20.5	<0.19	1,220	<0.15	182,000	<1.24	0.194 J	<1.51
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	19.6	<0.19	1,240	<0.15	188,000	<1.24 UJ	0.069 J	<1.51
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	19.7	<0.19	1,210	<0.15	190,000	4.38 J	0.098 J	<1.51
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	18.3	<0.19	1,290 J+	<0.15	206,000	<1.24	0.061 J	<1.51
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	18.2	<0.19	1,320 J+	<0.15	203,000	<1.24	0.0609 J	<1.51
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	16.5	<0.19	1,270	<0.15	214,000	<1.24	<0.0596	<1.51
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	15.9	<0.19	1,300	<0.15	217,000	<1.24	<0.0596	<1.51
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	17.5	<0.95	1,350	<0.15	231,000	<1.24	<0.0596	<1.51
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	17.6	<0.95	1,340	<0.15	245,000	<1.24	<0.0596	<1.51

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									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	19.9	<0.19	2,220	<0.15	509,000	58.2	0.624 J	2.27 J
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	20.4	<0.19	2,520	<0.15	590,000	78.2	0.672 J	1.81 J
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	18.5	<0.19	2,500	<0.15	563,000	57.7	0.425 J	<1.51
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	19.4	<0.19	2,150	<0.15	508,000	56.4	0.484 J	<1.51
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	18.6	<0.19	2,360	<0.15	528,000	54.6	0.502 J	<1.51
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	10.4	<0.19	1,580	<0.15	508,000	5.18	0.295 J	<1.51
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	9.92	<0.19	1,850	<0.15	515,000	8.76 J+	0.255 J	<1.51
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	10	<0.19	1,830	<0.15	520,000	6.47	0.295 J	<1.51
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	9.36	<0.19	1,930	<0.15	520,000	4.92	0.239 J	<1.51
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	9.89	<0.19	1,770	<0.15	503,000	4.3	0.269 J	1.53 J
Test Area 2C																
Pre-Construction Baseline Results																
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	32.1	<0.19	2,710	<0.15	668,000	94.9	<0.0596	<1.51
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	----	----	----	----	663,000	44.9	----	----
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	28.9	<0.19	2,440	<0.15	711,000	91.8	<0.0596	<1.51
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	29.2	<0.19	3,000	<0.15	750,000	<62	<0.0596	9.21
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	30.9	<0.19	2,660	<0.15	614,000	69.8	<0.0596	<1.51
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	29.5	<0.19	2,520	<0.15	659,000	88.6	<0.0596	<1.51
Post-Construction Performance Monitoring Results																
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23.5	<0.19	2,570	<0.15	625,000	105	0.712 J	6.51
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23.9	<0.19	2,760	<0.15	637,000	104	0.737 J	5.81
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23.7	<0.19	2,560	<0.15	621,000	102	0.671 J	<1.51
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	24.7	<0.19	2,730	<0.15	636,000	99.1	0.659 J	<1.51
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23.2	<0.19	3,020	<0.15	612,000	99.7	0.759 J	<1.51
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23.3	<0.19	3,020	<0.15	613,000	99.5	0.686 J	<1.51
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	22.9	<0.19	3,050	<0.15	619,000	97	0.557 J	<1.51
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	21.6	<0.19	3,080	<0.15	610,000	98.2	0.598 J	<1.51
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	21.8	<0.19	2,540	<0.15	680,000	101	0.636 J	<1.51
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	22.2	<0.19	2,680	<0.15	677,000	101	0.628 J	<1.51
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	24.8	<0.19	2,690	<0.15	603,000	99.1	0.637 J	1.94 J
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	24.6	<0.19	2,810	<0.15	637,000	101	0.634 J	1.74 J
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	23.5	<0.19	3,020	<0.15	628,000	101	0.663 J	<1.51
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	21.6	<0.19	3,100	<0.15	603,000	97.4	0.572 J	<1.51
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	22.3	<0.19	3,040	<0.15	630,000	101	0.629 J	<1.51
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	28.3	<0.19	2,610	<0.15	630,000	85.2	0.815 J	5.96
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	28.6	<0.19	2,590	<0.15	633,000	87.5	0.719 J	<1.51
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	22.9	<0.19	2,930	<0.15	605,000	102	0.594 J	<1.51
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	24.8	<0.19	2,620	<0.15	665,000	88.8	0.798 J	<1.51
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23.5	<0.19	2,390	<0.15	714,000	94.4	0.693 J	<1.51
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	26	<0.19	2,630	<0.15	630,000	104	0.717 J	2.13 J
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	25.4	<0.19	2,640	<0.15	615,000	103	0.614 J	<1.51
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	25.6	<0.19	3,140	<0.15	634,000	77	0.762 J	<1.51
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23.6	<0.19	2,710	<0.15	692,000	106	0.579 J	<1.51
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	24.6	<0.19	2,920	<0.15	646,000	106	0.535 J	<1.51

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	39.1	<0.19	1,710	<0.15	304,000	36.9	0.572 J	3.98 J
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	40.7	<0.19	1,900	<0.15	346,000	45.5	0.447 J	<1.51
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	34.5	<0.19	1,640	<0.15	320,000	38	0.335 J	<1.51
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	30	<0.19	1,800	<0.15	276,000	37.6	0.336 J	<1.51
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	28.5	<0.19	1,540	<0.15	251,000	25.8	0.329 J	<1.51
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	35.5	<0.19	2,780	<0.15	608,000	34.1	0.665 J	1.8 J
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	31.5	<0.19	2,660	<0.15	603,000	38	0.618 J	4.26 J
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	26.9	<0.19	2,780	<0.15	635,000	49.4	0.643 J	<1.51
ZTS-MW182	11/28/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	----	----	----	----	----	----	----	----
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	26.1	<0.19	2,970	<0.15	577,000	35.9	0.518 J	<1.51
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	24.8	<0.19	2,450	<0.15	634,000	60.9	0.555 J	<1.51
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	29.5	<0.19	2,850	<0.15	617,000	52.1	0.727 J	2.43 J
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	23.9	<0.19	2,650	<0.15	607,000	63.1	0.608 J	<1.51
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	24	<0.19	3,070	<0.15	674,000	75	0.625 J	<1.51
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	22	<0.19	----	<0.15	618,000	78.6	0.587 J	<1.51
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	25.3	<0.19	3,040 J+	<0.15	673,000	82	0.537 J	3.18 J
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	34.1	<0.19	2,500	<0.15	623,000	69	0.599 J	<1.51
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	28.1	<0.19	2,860	<0.15	648,000	95.6	0.72 J	<1.51
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	24.3	<0.19	2,840	<0.15	570,000	80.5	0.512 J	<1.51
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	23.9	<0.19	----	<0.15	611,000	84.1	0.531 J	<1.51
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	30.1	<0.19	2,790	<0.15	639,000	78.4	0.577 J	1.59 J
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	24.3	<0.19	2,800	<0.15	627,000	88.6	0.774 J	2.54 J
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	26.7	<0.19	2,870	<0.15	667,000	96.2	0.747 J	<1.51
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	24	<0.19	2,740	<0.15	617,000	93.2	0.593 J	<1.51
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	21.3	<0.19	3,080	<0.15	606,000	91.8	0.623 J	1.73 J
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	29.5	<0.19	2,990	<0.15	664,000	80.9	0.75 J	2.04 J
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	26.6	<0.19	2,650	<0.15	587,000	69.2	0.764 J	2.37 J
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	30.9	<0.19	2,870	<0.15	636,000	84.9	0.696 J	<1.51
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	28.7 J+	<0.19	2,970	<0.15	610,000	73.5	0.577 J	<1.51
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	23.6	<0.19	3,140	<0.15	591,000	88.4	0.572 J	<1.51
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	25.5	<0.19	2,940	<0.15	624,000	89.2	0.655 J	<1.51
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	28.2	<0.19	2,710	<0.15	644,000	72.3	0.708 J	<1.51
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	25.2	<0.19	2,540	<0.15	574,000	65.7	0.671 J	<1.51
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	29	<0.19	3,080	<0.15	701,000	76.8	0.691 J	<1.51
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	22.5	<0.19	----	<0.15	614,000	85	0.58 J	<1.51
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	28.1	<0.19	2,730 J+	<0.15	700,000	86.5	0.598 J	4.57 J
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	29.6	<0.19	1,020	<0.15	121,000	<1.24	0.316 J	<1.51
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	30.7	<0.19	1,170	<0.15	126,000	2.12 J+	0.323 J	<1.51
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	27.7	<0.19	1,120	<0.15	105,000	<1.24	0.17 J	<1.51
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	30	<0.19	1,200	<0.15	161,000	8.12	0.206 J	<1.51
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	28.1	<0.19	1,100 J+	<0.15	122,000	<1.24	<0.0596	3.25 J
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	28.1	<0.19	2,720	<0.15	639,000	83.5	0.848 J	1.77 J
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	27.6	<0.19	2,880	<0.15	644,000	96.7	0.719 J	<1.51
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	23.6 J+	<0.19	2,990	<0.15	577,000	88.3	0.536 J	<1.51

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	21.5	<0.19	2,920	<0.15	604,000	98.8	0.553 J	<1.51
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	22.5	<0.19	2,860	<0.15	644,000	90.4	0.688 J	<1.51
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	26.1	<0.19	2,800	<0.15	629,000	82.2	0.794 J	<1.51
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	26.6	<0.19	2,970	<0.15	645,000	92.7	0.716 J	<1.51
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	23.3 J+	<0.19	2,890	<0.15	580,000	80.7	0.586 J	<1.51
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	24.3	<0.19	2,680	<0.15	665,000	98.1	0.648 J	<1.51
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	22.5	<0.19	2,950	<0.15	642,000	87.8	0.649 J	<1.51
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	29.3	<0.19	2,600	<0.15	609,000	93.1	0.698 J	1.7 J
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	29	<0.19	2,590	<0.15	630,000	101	0.599 J	<1.51
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	26.3	<0.19	2,810	<0.15	620,000	90.5	0.584 J	<1.51
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	27.4	<0.19	2,490	<0.15	688,000	93.6	0.631 J	<1.51
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	24.9	<0.19	2,990	<0.15	616,000	93.5	0.566 J	<1.51
General Vicinity																
Pre-Construction Baseline Results																
LVWPS-MW102A	10/21/2022	N	BL02	NA	Downgradient	30	UMCf	47.0 - 66.6	11.2	<0.19	2,360	<0.15	529,000	14.6	<0.0596	<1.51
LVWPS-MW102B	10/21/2022	N	BL02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<38.1	<0.19	12,400	<0.15	552,000	<1.24	<0.0596	<1.51
LVWPS-MW107A	10/24/2022	N	BL02	NA	Downgradient	50	Alluvium	24.8 - 34.5	23.6	<0.19	3,330 J+	<0.15	643,000	87.6	<0.0596	<1.51
LVWPS-MW107B	10/21/2022	N	BL02	NA	Downgradient	50	UMCf	46.0 - 65.8	21.2	<0.19	1,720	<0.15	257,000	<1.24	<0.0596	<1.51
LVWPS-MW107C	10/24/2022	N	BL02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	2,760	<19	11,000 J+	<0.15	531,000	<1.24	<0.0596	<1.51
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	----	----	----	----	436,000	21.6	----	----
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	14.7	<0.19	2,440	<0.15	424,000	33	<0.0596	<1.51
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	----	----	----	----	344,000	4.76	----	----
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	27.8	<0.19	2,190	<0.15	498,000	22.9	<0.0596	<1.51
Post-Construction Performance Monitoring Results																
LVWPS-MW102A	5/30/2023	N	PM01	NA	Downgradient	30	UMCf	47.0 - 66.6	10.3	<0.19	2,320	<0.15	499,000	13.8	0.138 J	<1.51
LVWPS-MW102A	8/23/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	10.1	<0.19	2,380	<0.15	511,000	18	0.126 J	<1.51
LVWPS-MW102A	10/11/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	NA	Downgradient	30	UMCf	47.0 - 66.6	9.62	<0.19	2,100	<0.15	516,000	17.2	0.142 J	2.84 J
LVWPS-MW102A	2/27/2024	N	PM04	NA	Downgradient	30	UMCf	47.0 - 66.6	11.1	<0.19	2,290	<0.15	539,000	16.6	0.136 J	1.82 J
LVWPS-MW102A	5/23/2024	N	PM05	NA	Downgradient	30	UMCf	47.0 - 66.6	10.7	<0.19	2,070	<0.15	554,000	16.5	0.133 J	2.25 J
LVWPS-MW102B	5/26/2023	N	PM01	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	27.3 J	<0.19	11,800	<0.15	513,000	1.37 J	0.0623 J	<1.51
LVWPS-MW102B	8/23/2023	N	PM02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	22	<1.9	11,400	<1.5	504,000	<12.4	<0.596	<15.1
LVWPS-MW102B	12/1/2023	N	PM03	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	20.6 J+	<1.9	10,900	<1.5	503,000	<12.4	<0.596	<15.1
LVWPS-MW102B	2/27/2024	N	PM04	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	22.7	<1.9	11,700	<0.15	563,000	<1.24	0.157 J	<1.51
LVWPS-MW102B	5/23/2024	N	PM05	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	29.6	<0.19	11,400 J+	<1.5	574,000	<1.24	0.112 J	<1.51
LVWPS-MW107A	5/23/2023	N	PM01	NA	Downgradient	50	Alluvium	24.8 - 34.5	19.2	<0.19	2,560	<0.15	575,000	<1.24	0.44 J	<1.51
LVWPS-MW107A	8/24/2023	N	PM02	NA	Downgradient	50	Alluvium	24.8 - 34.5	21.8	<0.19	2,460	<0.15	569,000	<1.24	0.432 J	<1.51
LVWPS-MW107A	11/30/2023	N	PM03	NA	Downgradient	50	Alluvium	24.8 - 34.5	20.5 J+	<0.19	2,560	<0.15	542,000	1.32 J	0.333 J	<1.51
LVWPS-MW107A	2/22/2024	N	PM04	NA	Downgradient	50	Alluvium	24.8 - 34.5	27.5	<0.19	2,140	<0.15	519,000	2.09	0.346 J	<1.51
LVWPS-MW107A	5/28/2024	N	PM05	NA	Downgradient	50	Alluvium	24.8 - 34.5	20.6	<0.19	2,560	<0.15	564,000	1.91 J	0.347 J	<1.51
LVWPS-MW107B	5/23/2023	N	PM01	NA	Downgradient	50	UMCf	46.0 - 65.8	16.2	<0.19	1,820	<0.15	252,000	<1.24	<0.0596	<1.51
LVWPS-MW107B	8/24/2023	N	PM02	NA	Downgradient	50	UMCf	46.0 - 65.8	56.9	<0.19	919	<0.15	172,000	8.44	0.135 J	<1.51
LVWPS-MW107B	12/1/2023	N	PM03	NA	Downgradient	50	UMCf	46.0 - 65.8	81.7	<0.19	479	<0.15	163,000	<1.24	<0.0596	1.9 J

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107B	2/23/2024	N	PM04	NA	Downgradient	50	UMCf	46.0 - 65.8	16.5	<0.19	1,700	<0.15	286,000	<1.24	<0.0596	<1.51
LVWPS-MW107B	5/24/2024	N	PM05	NA	Downgradient	50	UMCf	46.0 - 65.8	15.9	<0.19	1,760	<0.15	254,000	<1.24	<0.0596	<1.51
LVWPS-MW107C	5/23/2023	N	PM01	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	23.4	<0.19	11,300	<0.15	544,000	<1.24	0.132 J	<1.51
LVWPS-MW107C	8/24/2023	N	PM02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	47.5	<1.9	10,200	<1.5	552,000	<12.4	<0.596	<15.1
LVWPS-MW107C	12/1/2023	N	PM03	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	20.7 J+	<1.9	10,200	<1.5	492,000	<12.4	<0.596	<15.1
LVWPS-MW107C	2/23/2024	N	PM04	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	22.2 J	<3.8	10,000	<3	556,000	<24.8	<1.19	125
LVWPS-MW107C	5/28/2024	N	PM05	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	23.7	<0.19	2,950	<0.15	632,000	93.7	0.569 J	2.81 J
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	15.1	<0.19	2,500	<0.15	439,000	35.8	0.171 J	<1.51
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	14.5	<0.19	2,280	<0.15	443,000	35.2	0.183 J	<1.51
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	14.3	<0.19	2,500	<0.15	469,000	136	0.651 J	<1.51
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	16.1	<0.19	2,450	<0.15	500,000	45.7	0.192 J	2.02 J
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	13.8	<0.19	2,430	<0.15	454,000	40.9	0.223 J	<7.55
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	20.5	<0.19	2,000	<0.15	496,000	31.1	0.606 J	<1.51
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	17.2	<0.19	2,110 J+	<0.15	531,000	45.4	0.616 J	<1.51
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	15.4	<0.19	2,040	<0.15	584,000	57.6	0.734 J	<1.51
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	19	<0.19	1,600	<0.15	427,000	21.9	0.295 J	2.16 J
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	18	<0.19	2,290	<0.15	536,000	55.1	0.769 J	2.39 J

Notes:
1. Distances from the discontinuous or continuous walls are shown as negative values for upgradient monitoring wells, as
bgs - below ground surface
J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be
< The analyte was analyzed for, but was not detected above the level of the reported sample
mg/L - milligram per liter
mS/cm - milliSiemens per centimeter
mV - millivolts
nmol - nanomol
SU - standard units
N - normal field sample
µg/L - micrograms per liter
UMCf - Upper Muddy Creek formation
FD - field duplicate
FS - field split

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Test Area 1A																
Pre-Construction Baseline Results																
ZTS-MW143	10/18/2022	N	BL02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<28.1	<0.849	246,000	6.85	391	2.03	66,100	51.2
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<28.1	----	----	21.1	----	----	----	----
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<28.1	----	----	20	----	----	----	----
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<28.1	<0.849	205,000 J	<0.704	376 J	2.19 J+	61,800 J	47.6 J
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<28.1	<0.849	11,300 J	<0.704	<0.348 UJ	<0.816	<108 UJ	<0.3 UJ
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	<28.1	----	----	105	----	----	----	----
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	<28.1	<0.849	142,000	322	83.7	<0.816	145,000	4.28
ZTS-MW125	10/24/2022	FD	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	----	----
ZTS-MW144	10/18/2022	N	BL02	1A	Downgradient	35	Alluvium	24.0 - 34.0	<28.1	<0.849	272,000	27.9	329	2.85	69,000	51.3
Post-Construction Performance Monitoring Results																
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<28.1	<0.849	239,000	<0.704	410	1.7 J	63,300	60.4
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<28.1	<0.849	234,000	<0.704	401	1.87 J	64,700	61.2
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<28.1	<0.849	246,000	<0.704	289	3.12	66,700	40.4
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<28.1	<0.849	275,000	0.718 J	227	2.84 J+	68,800	35.5
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<28.1	<0.849	237,000	1.71 J	339	1.99 J	64,000	57.8
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<28.1	<0.849	206,000	2.29 J	332	4.2	65,200	49.6
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<28.1	<0.849	201,000	<0.704	334	1.64 J	64,700	48.7
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	1,330 J-	<0.849	227,000	20.6 J-	304	142 J-	67,000	52.4
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	30.1 J	<0.849	236,000	0.707 J	302	2.39	71,100	49.8
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<28.1	<0.849	205,000	0.964 J	299	1.52 J	63,600	45.7
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	<28.1	<0.849	147,000	149	34.7	1.65 J	162,000	2.07
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	206	<0.849	162,000	150	102	0.942 J	143,000	14.1
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	228 J+	<0.849	162,000	130	98.8	1.77 J	154,000	15.8
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	326	<0.849	169,000	117	30.4	<0.816	182,000	3.98
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	205	<0.849	174,000	102	92.1	<0.816	165,000	14.7
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	38.2 J	<0.849	211,000	2.37 J	351	3.79	64,600	51.3
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<28.1	<0.849	216,000	<0.704	346	1.59 J	61,600	52.9
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	38.2 J	<4.24	232,000	0.845 J	321	2.4	70,700	50.9
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<28.1	<0.849	240,000	<0.704	259	2.55	70,900	42.2
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<28.1	<0.849	234,000	1.58 J	309	1.95 J	67,000	51.9
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<28.1	<0.849	234,000	<0.704	367	1.77 J	70,000	50
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<28.1	<0.849	215,000	<0.704	342	1.6 J	63,800	52.7
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<28.1	<0.849	242,000	<0.704	338	1.82 J	69,600	53.9
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<28.1	<0.849	238,000	<0.704	331	1.77 J	71,000	54.7
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<28.1	<0.849	240,000	<0.704	345	1.81 J	69,500	51.2
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	5,450	<0.849	203,000	246	69.6	1.94 J	65,400	1.85 J
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,550	<0.849	218,000	151	144	1.55 J	64,400	6.42
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,320	<0.849	237,000	136	182	1.76 J	69,700	11
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,190	<0.849	233,000	133	166	2.57	70,100	6.02
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,030	<0.849	206,000	111	201	1.94 J	64,100	16.6
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<28.1	<0.849	225,000	187	88.7	2.28	66,900	1.61
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,590	<0.849	231,000	166	177	1.93 J	65,300	2.46

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,960	<0.849	246,000	165	191	1.86 J	75,200	5.02
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,540	<0.849	244,000	145	149	1.99 J	75,700	1.3 J
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	669	<8.49	230,000	129	220	1.93 J	72,000	10.2
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,080	<0.849	232,000	322	121	3.12	65,500	10.5
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,160	<0.849	228,000	322	117	3.06	64,800	9.63
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,090	0.894 J	224,000	220	112	2.59	67,100	6.82
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,140	<0.849	234,000	221	116	2.73	65,700	7.53
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	546	<0.849	253,000	197	142	2.56	79,800	14.5
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	594	<0.849	256,000	195	136	2.57	78,100	13.6
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	585	<0.849	248,000	189	121	2.12 J	71,000	8.46
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	651	<0.849	239,000	170	118	4.46 J	71,700	7.21
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,170	<0.849	225,000	163	134	1.68 J	71,400	6.83
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,180	<0.849	229,000	168	141	1.97 J	72,400	7.51
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	<28.1	<0.849	215,000	510	254	4.76	62,500	29.6
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	<28.1	<0.849	230,000	256	316	5.09	61,300	44.6
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	<28.1	<0.849	239,000	178	350	7.27	71,100	50.4
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	<28.1	<0.849	247,000	161	273	8.11	66,800	35.3
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	<28.1	<0.849	228,000	155	316	7.39	62,600	48.8
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<0.849	237,000	985	164	6.04	65,000	13.2
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<0.849	238,000	892	166	5.89	65,000	13.4
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<0.849	239,000	175	282	4.74	58,600	44.6
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<0.849	254,000	178	305	4.77	62,300	47
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<0.849	245,000	169	269	7.58	69,600	30
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<0.849	266,000	188	280	8.15	72,000	32.4
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<0.849	268,000	153	190	7.57 J+	68,200	29.4
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<0.849	276,000	150	191	9.3 J+	68,800	29.2
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<4.24	255,000	137	262	6.27	69,500	42.7
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	<28.1	<4.24	249,000	137	260	6.35	69,200	43.8
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	<28.1	<0.849	167,000	52.9	3.17	<0.816	185,000	<0.3
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	78.3 J	<0.849	184,000	26.8	46.7	<0.816	171,000	7.34
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	62.8 J	<0.849	158,000	17.3	16.2	<0.816	178,000	2.65
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	85.1 J	<0.849	197,000	20.8	30.7	<0.816	192,000	4.77
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	76.6 J	<0.849	214,000	17.2	99.9	<0.816	194,000	16.4
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	44.1 J	<0.849	246,000	326	226	4.46	73,100	25.6
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	<28.1	<0.849	227,000	157	285	7.01	72,600	39.1
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	<28.1	<0.849	231,000	101	227	6.7	80,900	42.9
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	<28.1	<0.849	256,000	111	298	6.74	79,300	48.9
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	<28.1	<0.849	232,000	82.1	246	4.23	77,900	38.4
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	222,000	899	271	6.44	66,600	31
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	232,000	316	280	4.21	59,000	43.1
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	237,000	334	275	6.45	69,700	33.6
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	250,000	425	205	7.11	66,800	26.4
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	0.853 J	251,000	316	268	7.04	64,500	49
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	28.9 J	<0.849	237,000	679	160	5.38	62,400	16.1

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	259,000	243	251	4.34	68,200	32.5
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	237,000	180	198	4.89	68,900	22.9
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	277,000	156	185	6.1 J+	68,000	31.3
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	247,000	210	242	6.12	70,900	40.1
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	262,000	245	153	5.14	68,600	20.8
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	248,000	251	207	5.92	68,200	28.2
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	242,000	109	212	5.98	75,700	36.2
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<28.1	<0.849	270,000	97.2	144	6.24 J+	91,400	34.2
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	31.8 J	<0.849	256,000	127	192	5.77	86,900	36.5
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	<28.1	<0.849	204,000	138	334	3.21	56,900	45.5
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	29.2 J	<0.849	234,000	1.22 J	356	2.03	62,700	53.6
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	<28.1	<0.849	217,000	<0.704	321	1.7 J	63,900	52.8
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	<28.1	<0.849	254,000	<0.704	300	2.85	69,900	41.2
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	<28.1	<0.849	227,000	<0.704	326	1.77 J	63,600	51.7
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	<28.1	<0.849	245,000	406	192	6.03	63,400	21.4
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	45.2 J	<0.849	252,000	206	209	4.06	63,100	22.4
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	<28.1	<0.849	245,000	147	193	4.16	68,100	26
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	<28.1	<0.849	268,000	129	180	4.28	76,100	25.6
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	<28.1	<0.849	246,000	118	179	4.87	78,200	29.3
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	<28.1	<0.849	255,000	1.7 J	112	2.9	65,600	14.5
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	<28.1	<0.849	242,000	1.12 J	151	2.75	63,300	11.9
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	<28.1	<0.849	264,000	18.5	185	3.36	65,900	21.5
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	<28.1	<0.849	256,000	31.5	180	2.89	70,800	24.7
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	<28.1	<4.24	267,000	111	241	4.03	70,100	38.8
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	<28.1	<0.849	146,000	885	62.4	2.85	107,000	6.64
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	<28.1	<0.849	219,000	220	272	2.6	77,000	37.6
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	<28.1	<0.849	245,000	102	271	2.78	75,300	38.7
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	<28.1	<0.849	234,000	73.8	222	2.63	82,600	35.5
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	<28.1	<4.24	229,000	69.8	223	2.06	87,300	36.1
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	<28.1	<0.849	240,000	3.15 J	237	2.39	64,900	31.9
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	<28.1	<0.849	229,000	26.2	261	2.62	62,700	36.1
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	<28.1	<0.849	261,000	14.4	272	2.1	72,600	41.5
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	<28.1	<0.849	247,000	6.26	236	2.18	75,200	38.9
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	<28.1	<0.849	240,000	1.84 J	261	2.3	74,600	42.3
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	214,000	5.86	252	1.89 J	66,400	22.8
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	223,000	2.16 J	292	2.57	66,200	40.9
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	221,000	2.01 J	286	1.96 J	66,100	39.9
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	241,000	26.2	307	2.4	68,500	43.7
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	237,000	26	305	2.52	67,000	41.9
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	257,000	49.4	284	3.29	70,200	33.8
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	252,000	49.9	288	3.42	72,800	34.5
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	242,000	40.1	307	2.8	65,400	48.3
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	<28.1	<0.849	233,000	38.3	305	2.46	63,400	47.8
Between Test Area 1A and Test Area 1B																

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Pre-Construction Baseline Results																
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<28.1	<0.849	208,000	374	168	2.07	121,000	12.5
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<28.1	<0.849	270,000	1,160	156	5.01	170,000	16
Post-Construction Performance Monitoring Results																
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<28.1	<0.849	62,900	12.1	9.92	3.34	41,600	1.45 J
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	126	<0.849	181,000	179	10.2	<0.816	156,000	0.81 J
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	130	<0.849	193,000	142	4.34 J	<0.816	161,000	<0.3
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	36.7 J	<0.849	169,000	122	11.2	1.08 J	131,000	1.72 J
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	40.5 J	<0.849	175,000	58.8	8.96	<0.816	141,000	1.31 J
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	140	<0.849	259,000	426	46.8	1.11 J	238,000	8.37
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	132	<0.849	301,000	435	2.2 J	<0.816	328,000	<0.3
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	112	<0.849	288,000	338	1.79 J	<0.816	329,000	<0.3
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	126 J+	<0.849	335,000	331	1.49 J	<0.816	358,000	<0.3
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	110	<0.849	307,000	289	1.23 J	<0.816	325,000	<0.3
Test Area 1B																
Pre-Construction Baseline Results																
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<28.1	<0.849	264,000	10.6	99.7	4.72	139,000	40.2
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<28.1	----	----	388	----	----	----	----
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<28.1	<0.849	255,000	33.6	122	4.31 J+	108,000	36.7
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<28.1	<0.849	289,000	37.6	119	3.19	112,000	39.2
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	<28.1	----	----	245	----	----	----	----
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	<28.1	<0.849	241,000	45.6	91.8	9.01	90,500	42.9
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	<28.1	<0.849	244,000	20.9	95.9	2.38	125,000	39.3
Post-Construction Performance Monitoring Results																
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<28.1	<0.849	243,000	<0.704	93.4	3.36	127,000	38
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<28.1	<0.849	228,000	<0.704	96.1	1.97 J	128,000	36.5
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<28.1	<0.849	237,000	<0.704	95.4	2.35	130,000	36.7
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	51.6 J	<0.849	231,000	<0.704	96.2	2.12	127,000	37.8
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<281	<8.49	6,160,000	210	<3.48	<8.16	5,540,000	<3
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<28.1	<0.849	270,000	<0.704	151	3.44	99,900	30.7
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<28.1	<0.849	262,000	<0.704	148	3.02	103,000	32
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<28.1	<0.849	265,000	<0.704	136	2.46	102,000	31.7
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	31.8 J	<0.849	264,000	<0.704	121	2.18	120,000	36
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<28.1	<0.849	262,000	<0.704	131	2.94	115,000	30.2
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<28.1	<0.849	243,000	2.04 J	93.3	5.76	106,000	37.4
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	47.7 J	<0.849	229,000	1.95 J	88.6	2.22	110,000	37.7
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<28.1	<0.849	223,000	1.25 J	85.9	5.97	109,000	35.8
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<28.1	<0.849	242,000	0.864 J	87.6	2.5	131,000	37.8
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	75.6 J	<0.849	219,000	4.05 J	83.9	2.14	113,000	35.5
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<28.1	<0.849	246,000	1.36 J	95.9	6.95	132,000	40.9
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<28.1	<0.849	240,000	<0.704	94.1	2.07	134,000	38.7
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	77.5 J	<0.849	229,000	6.88 J+	93.5	30.9	125,000	35.6
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	36.1 J	<0.849	248,000	<0.704	92.2	1.98 J	135,000	37.8
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<28.1	<0.849	230,000	<0.704	93.9	2.25	129,000	36.8

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	<28.1	<0.849	232,000	44.6	56.4	18.3	108,000	20.7
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	<28.1	<0.849	232,000	9.37	74.3	2.19	102,000	25.4
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	<28.1	<0.849	233,000	2.28 J	68.4	2.16	99,700	24.9
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	45.9 J	<0.849	254,000	2.1 J	70.5	1.94 J	111,000	27.2
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	<28.1	<0.849	242,000	1.47 J	54	1.89 J	122,000	23.7
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	309	<0.849	253,000	554	35.3	2.2	91,500	<0.3
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	1,380	<0.849	237,000	202	145	2.7	65,800	13.3
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	155	<0.849	257,000	280	39	2.19	121,000	1.46 J
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	93.3 J	<0.849	240,000	234	27.3	10.4	114,000	1.77 J
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	103	<0.849	227,000	158	37.5	2.24	109,000	2.09
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	2,590	<0.849	233,000	297	56.9	2.62	131,000	8.47
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	532	<0.849	241,000	183	55.4	2.18	130,000	13.5
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	468	<0.849	242,000	172	56.9	2.42	140,000	11.9
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	176	<0.849	222,000	109	78.3	2.25	105,000	27.7
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	59.2 J	<4.24	246,000	134	49.9	2.09	125,000	10.8
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	215	<0.849	229,000	442	16.4	1.96 J	122,000	<0.3
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	59.7 J	<0.849	227,000	316	15.3	1.86 J	128,000	<0.3
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	168	<0.849	204,000	382	11.9	1.87 J	139,000	<0.3
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	85 J	<0.849	208,000	332	7.01	2.08	144,000	<0.3
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	147	<0.849	203,000	263	12.3	2.05	138,000	<0.3
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	<28.1	<0.849	259,000	931	40	3.38	116,000	0.468 J
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	<28.1	<0.849	240,000	192	50.2	2.05	108,000	1.51 J
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	207	<0.849	250,000	156	47.1	2.26	127,000	1.68 J
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	<28.1	<0.849	231,000	116	38.9	3.59	119,000	2.82
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	<28.1	<0.849	244,000	279	50.5	2.34	119,000	7.46
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<0.849	230,000	340	40	2.46	115,000	1.51 J
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<0.849	227,000	354	38.9	2.35	113,000	1.5 J
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<0.849	241,000	605	29.2	3.44	126,000	6.81
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<0.849	242,000	607	29.8	3.48	130,000	6.56
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<0.849	219,000	121	40.5	2.26	123,000	1.31 J
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<0.849	211,000	118	38.9	2.16	118,000	1.28 J
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<0.849	235,000	99.7	37.1	3.26	126,000	1.04 J
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<0.849	229,000	98.3	37.9	3.24	125,000	0.793 J
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<4.24	241,000	14.5	38.2	2.09	119,000	2.02
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	<28.1	<4.24	243,000	16.7	38.1	2.35	119,000	2.25
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	39.2 J	<0.849	205,000	307	50.8	2.18	122,000	6.02
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	40.8 J	<0.849	206,000	248	31	3	139,000	5.27
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	87 J	<0.849	196,000	250	9.39	5.24	158,000	2.64
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	81.6 J	<0.849	244,000	171	26.4	1.49 J	169,000	9.78
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	<28.1	<4.24	250,000	52.8	26.9	1.17 J	166,000	11.4
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	<28.1	<0.849	218,000	614	24.7	2.62	123,000	0.483 J
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	<28.1	<0.849	231,000	201	29.5	2.38	133,000	0.844 J
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	<28.1	<0.849	207,000	193	26.8	2.17	130,000	0.581 J
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	<28.1	<0.849	233,000	290	25.9	1.89 J	130,000	0.76 J

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Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	<28.1	<0.849	209,000	137	30.1	3.47	145,000	0.43 J
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	234,000	284	55.8	2.33	125,000	2.21 J
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	243,000	185	49.8	2.32	119,000	5.19
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	199,000	214	34.3	2.93	111,000	1.03 J
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	237,000	139	30	2.42 J+	123,000	0.365 J
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	33 J	<0.849	234,000	109	39	2.22	118,000	0.447 J
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	<28.1	<0.849	235,000	262	65.8	2.99	137,000	8.8
ZTS-MW174	5/26/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	<28.1	<0.849	227,000	197	40.6	2.27	120,000	1.46 J
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	19.8 - 29.5	<28.1	<0.849	202,000	113	36.5	3.34	123,000	<0.3
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	<28.1	<0.849	222,000	136	31.2	2.85 J+	129,000	<0.3
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	<28.1	<0.849	222,000	59.4	40.6	2.03	129,000	2.23
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	228,000	258	59.3	3.02	118,000	4.65
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	243,000	141	44.8	2.92	124,000	2.44 J+
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	196,000	101	29.1	1.45 J	115,000	2
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	230,000	116	30.4	2.44 J+	140,000	1.46 J
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	<28.1	<0.849	204,000	106	36.7	2	124,000	4.33
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	233,000	1.43 J	85.2	2.44	136,000	41.1
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	209,000	1.39 J	78.8	1.88 J	125,000	39.9
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	231,000	1.09 J	84.5	3.36	133,000	41.9
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	238,000	0.744 J	83.4	2.37	134,000	42
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	212,000	<0.704	78.7	1.82 J	143,000	35
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	215,000	<0.704	79.5	1.87 J	146,000	36.6
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	247,000	<0.704	87	1.82 J	159,000	39
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	39.9 J	<0.849	244,000	<0.704	87.3	1.41 J	159,000	37.9
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	214,000	1.31 J	83.7	1.92 J	138,000	37.2
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	<28.1	<0.849	223,000	0.771 J	83.5	2.83	144,000	36.4
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	<28.1	<0.849	232,000	14.5	71.3	2.49	130,000	10
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	<28.1	<0.849	248,000	90.6	53.2	3.23	137,000	2.41 J+
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	<28.1	<0.849	232,000	43.2	47	2.4	138,000	<0.3
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	<28.1	<0.849	223,000	38.1	32.3	2.44	130,000	<0.3
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	<28.1	<0.849	213,000	24.9	44.4	1.87 J	117,000	2.58
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	<28.1	<0.849	224,000	6.99	99.9	1.99 J	120,000	12.7
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	<28.1	<0.849	216,000	1.06 J	84.2	2.13	121,000	1.06 J
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	<28.1	<0.849	197,000	0.802 J	57	1.72 J	115,000	0.604 J
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	<28.1	<0.849	223,000	0.712 J	61.3	2.15	132,000	0.415 J
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	34.6 J	<0.849	227,000	<0.704	55.9	3.29	124,000	3.48
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	<28.1	<0.849	227,000	<0.704	133	2.46	104,000	10.2

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	<28.1	<0.849	230,000	<0.704	111	2.26	109,000	5.13
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	<28.1	<0.849	249,000	1.55 J	92.7	2.02	119,000	9.43
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	<28.1	<0.849	244,000	<0.704	93.1	2.08	122,000	7.2
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	<28.1	<0.849	233,000	2.43 J	80.4	2.09	119,000	8.36
Test Area 2A																
Pre-Construction Baseline Results																
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<28.1	<0.849	234,000	33.9	85.8	4.69	157,000	42.8
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	----	----	71.2	----	----	----	----
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	254,000	<0.704	82.4	3.14	117,000	42.3
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	<28.1	<0.849	214,000	73.3	76.9	3.16	162,000	42.3
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	<28.1	<0.849	248,000	317	80.5	6.12	129,000	41.1
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<28.1	<0.849	210,000	<0.704	73.7	2.85	155,000	46.2
Post-Construction Performance Monitoring Results																
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<28.1	<0.849	235,000	1.35 J	83.2	2.22	131,000	38.2
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<28.1	<0.849	239,000	<0.704	86.6	2.17	126,000	40
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	30.6 J	<0.849	224,000	0.974 J	85.1	2.51	122,000	39.8
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<28.1	<0.849	228,000	<0.704	85.7	2.12	116,000	37.1
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<28.1	<0.849	231,000	<0.704	85.8	2.31	113,000	38
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	223,000	0.901 J	73.3	2.21	105,000	38.7
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	247,000	<0.704	80	2.16	114,000	40.6
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	246,000	<0.704	82.6	2.21	112,000	43
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	248,000	0.955 J	83.6	2.76	115,000	44
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	230,000	<0.704	80.9	2.57	123,000	42.7
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	235,000	<0.704	81.9	2.64	122,000	43.2
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	239,000	<0.704	81.8	2.16	119,000	40.4
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	241,000	<0.704	81.3	2.08	123,000	40.5
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	235,000	<0.704	82.7	2.22	107,000	40.5
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<28.1	<0.849	239,000	<0.704	80.5	2.16	105,000	35.7
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<28.1	<0.849	240,000	2.94 J	85.7	2.17	128,000	36.9
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<28.1	<0.849	220,000	1.35 J	88.6	2.07	123,000	38.8
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<28.1	<0.849	232,000	<0.704	88.4	2.06	128,000	41
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<28.1	<0.849	230,000	0.862 J	81	1.64 J	123,000	37.9
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<28.1	<0.849	223,000	4.4 J	85.9	1.87 J	109,000	32.5
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<28.1	<0.849	218,000	0.707 J	78.7	1.97 J	134,000	35.8
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<28.1	<0.849	218,000	0.831 J	82	2.27	134,000	38.5
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<28.1	<0.849	212,000	<0.704	81	2.11	122,000	37.3
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<28.1	<0.849	248,000	1.01 J	86.4	2.6	138,000	38.6
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<28.1	<0.849	197,000	1.88 J	71	2.31	101,000	34.6
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	<28.1	<0.849	219,000	20.2	71.6	2.16	136,000	34.8
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	60.8 J	<0.849	203,000	7.82	72.7	2.1	122,000	33.2
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	<28.1	<0.849	219,000	11.2 J+	56	2.26	115,000	29.6
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	<28.1	<0.849	226,000	6.2	54.4	1.93 J	116,000	25.6
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	<28.1	<0.849	206,000	10.8	72.6	2.08	112,000	27.5
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	<28.1	<0.849	215,000	168	77.6	3.29	133,000	36.4

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	<28.1	<0.849	222,000	12	80.9	2.14	129,000	42.1
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	31.3 J	<0.849	227,000	4.72 J	86	3.71	137,000	40
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	<28.1	<0.849	223,000	4.02 J	78.3	2.78	125,000	36.2
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	<28.1	<4.24	242,000	4.3 J	84.6	2.05	118,000	35.6
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	65.7 J	<0.849	212,000	392	37.6	2.7	122,000	8.63
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	54.9 J	<0.849	196,000	269	29.1	1.96 J	103,000	10.5
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	30.6 J	<0.849	206,000	273	45	3.23	117,000	14.4
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	89.2 J	<0.849	192,000	139	53.2	2.88 J+	120,000	16.4
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	<28.1	<0.849	199,000	169	48.2	2.36	112,000	13.9
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	<28.1	<0.849	213,000	70.3	74.3	2.7	127,000	34.5
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	<28.1	<0.849	225,000	108	73.8	2.24	124,000	37.8
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	<28.1	<0.849	207,000	54.9	78.4	3.41	130,000	39.6
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	<28.1	<0.849	215,000	14	76.7	2.05 J+	122,000	35.4
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	<28.1	<4.24	239,000	40.5	78.1	2.05	114,000	34.2
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	<28.1	<0.849	217,000	9.67	80	3.84	147,000	39.5
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	49.8 J	<0.849	222,000	1.45 J	78.3	2.72	134,000	40.1
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	37.1 J	<0.849	220,000	1.34 J	82.1	2.9	134,000	40.6
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	<28.1	<0.849	215,000	<0.704	76.1	2.08 J+	109,000	35.8
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	<28.1	<4.24	226,000	<0.704	73.4	2.17	98,100	38.3
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	<28.1	<0.849	220,000	96.1	85.5	2.98	136,000	32.7
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	<28.1	<0.849	223,000	20.1	81	2.28	123,000	36.1
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	29.7 J	<0.849	194,000	26.8	68.9	4	113,000	36.8
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	<28.1	<0.849	228,000	6.77	72.3	2.37 J+	116,000	35.9
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	<28.1	<4.24	247,000	22.7	78.4	2.21	115,000	32.2
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	38.2 J	<0.849	215,000	8.14	79.3	3	129,000	38.5
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	58.2 J	<0.849	222,000	9.8	79.6	2.71	124,000	39.1
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	<28.1	<0.849	224,000	2.25 J	75.5	1.87 J	126,000	38.5
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	<28.1	<0.849	225,000	2.42 J	76.6	1.73 J	130,000	38.4
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	29.3 J	<0.849	210,000	2.5 J	76.7	2.75	127,000	36.2
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	33.5 J	<0.849	198,000	2 J	73.4	2.75	120,000	36
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	36.3 J	<0.849	221,000	1.07 J	76.3	2.49	127,000	36.3
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	51.4 J	<0.849	220,000	1.11 J	76.8	2.65	123,000	36.5
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<28.1	<0.849	231,000	<0.704	79.8	1.83 J	116,000	34.2
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<28.1	<0.849	231,000	<0.704	78.4	1.86 J	118,000	34.5
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	<28.1	<0.849	229,000	27.3	67.8	2.97	124,000	30.3
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	<28.1	<0.849	233,000	9.99	72.3	3.04	122,000	32.4
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	10/11/2023	FS	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	11/30/2023	N	PM03	2A	Downgradient	5	UMCf	28.3 - 38.0	<28.1	<0.849	183,000	30.2 J+	54	2.17	103,000	22.9
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	31.1 J	<0.849	183,000	45.7	40.2	1.94 J	96,700	17.1
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	<28.1	<0.849	228,000	7.43	69.1	2.43	111,000	28.3
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	<28.1	<0.849	211,000	13	79.5	2.64	145,000	39.9
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	<28.1	<0.849	229,000	0.915 J	77.4	1.74 J	139,000	41.6
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	<28.1	<0.849	202,000	0.791 J	80	2.9	133,000	41.3

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	48.4 J	<0.849	215,000	0.705 J	79.2	2.7	127,000	36.2
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	<28.1	<0.849	221,000	<0.704	80.7	1.93 J	114,000	34.7
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	<28.1	<0.849	208,000	6.28	75.9	2.01	127,000	36.6
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	<28.1	<0.849	210,000	0.837 J	72.4	1.65 J	128,000	37.9
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	<28.1	<0.849	202,000	<0.704	76	1.92 J	130,000	36
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	<28.1	<0.849	212,000	<0.704	80.7	2.29	138,000	38.2
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	<28.1	<0.849	220,000	<0.704	81.2	2.1	123,000	36.5
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<28.1	<0.849	209,000	0.954 J	77.9	2.54	149,000	38.8
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<28.1	<0.849	240,000	0.943 J	78.7	2.51	120,000	39.6
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<28.1	<0.849	219,000	1.97 J	68.8	2.97	109,000	34.2
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<28.1	<0.849	268,000	<0.704	85	1.84 J	131,000	34.5
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<28.1	<0.849	230,000	<0.704	80.5	2.07	118,000	36.8
Test Area 2B																
Pre-Construction Baseline Results																
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	<28.1	<0.849	397,000	21.7	75	<0.816	151,000	35.1
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	<28.1	----	----	122	----	----	----	----
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<28.1	<0.849	137,000	123	27.4	<0.816	94,700	<0.3
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<28.1	<0.849	135,000	117	27.5	<0.816	93,800	<0.3
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	<28.1	<0.849	238,000	26.6	71.6	2.85	179,000	40.4
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	<28.1	<0.849	431,000	30.7	54.7	<0.816	153,000	38.8
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<28.1	<0.849	155,000	361	31.2	<0.816	102,000	8.42
Post-Construction Performance Monitoring Results																
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	41.1 J	<0.849	398,000	6.45	108	<0.816	152,000	40.1
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	<28.1	<0.849	410,000	5.68	104	<0.816	151,000	39.8
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	<28.1	<0.849	407,000	6.56 J+	128	<0.816	148,000	41.6
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	<28.1	<0.849	432,000	2.61 J	137	<0.816	158,000	46
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	<28.1	<0.849	387,000	2.38 J	125	<0.816	151,000	41.3
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	104	<0.849	151,000	65.5	12.1	1.01 J	80,200	<0.3
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	250	<0.849	237,000	73.9	15	<0.816	113,000	<0.3
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	223	28.9	295,000	89.3	23.8	32.9	134,000	6.62
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	190 J+	<0.849	322,000	52.9	22.5	<0.816	143,000	<0.3
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	144	<0.849	320,000	55.3	24.4	1.65 J	142,000	<0.3
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	<28.1	<0.849	229,000	17.7	72.1	3.32	138,000	35.4
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	<28.1	<0.849	242,000	4.9 J	72.3	2.63	128,000	36.3
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	<28.1	<0.849	228,000	14.7	64.7	2.26	126,000	30.7
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	<28.1	<0.849	281,000	79.3	41	2.06	137,000	15.9
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	<28.1	<0.849	243,000	18.9	71.4	2.98	124,000	29.6
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	<28.1	<0.849	262,000	187	29.8	3	120,000	4.73
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	45.7 J	<0.849	272,000	82.9	35.2	1.22 J	124,000	11.4
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	404	<0.849	329,000	155	16.3	0.947 J	147,000	0.888 J
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	107 J+	<0.849	326,000	99.8	12.7	<0.816	137,000	1.44 J
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	164	<0.849	318,000	94.2	17.7	7.77	135,000	<3
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	72.2 J	<0.849	351,000	493	35	0.903 J	134,000	0.873 J
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	72.7 J	<0.849	346,000	484	34.7	0.855 J	137,000	0.781 J

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	200	<0.849	359,000	595	28.9	20.1	142,000	0.904 J
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	316	<0.849	382,000	630	28.7	<0.816	154,000	0.733 J
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	75 J	<0.849	380,000	549	29.8	3.61	147,000	0.48 J
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	<281	<8.49	407,000	493	33.7 J	<8.16	160,000	<3
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	<28.1	<0.849	284,000	218	79.2	3.15	127,000	7.21
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	43.7 J	<0.849	311,000	312	79.3	1.6 J	120,000	21.4
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	29.9 J	<0.849	340,000	203	91	1.09 J	138,000	21.1
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	51.8 J	<0.849	341,000	133	86.3	1.07 J	144,000	20.8
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	32.7 J	<4.24	391,000	129	93.5	1.89 J	140,000	24.4
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	<28.1	<0.849	381,000	527	82.2	3.28	153,000	19.1
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	<28.1	<0.849	381,000	287	74.9	1.59 J	141,000	35.3
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	<28.1	<0.849	407,000	239	87.8	1.48 J	162,000	36.8
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	56.1 J	<0.849	397,000	194	104	1.41 J	151,000	38
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	28.7 J	<4.24	436,000	166	109	2.1	154,000	42.4
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	<28.1	<0.849	396,000	281	95.8	1.96 J	130,000	44.2
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	<28.1	<0.849	379,000	107	82.4	0.986 J	126,000	48.6
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	<28.1	<0.849	405,000	67.4	97	<0.816	143,000	51.8
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	<28.1	<0.849	408,000	49.9	97.8	<0.816	141,000	52.8
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	<281	<8.49	453,000	43 J	111	<8.16	157,000	59
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	<28.1	<0.849	182,000	228	59.8	2.17	108,000	5.59
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	<28.1	<0.849	209,000	266	67.7	2.45	122,000	6.02
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	171	<0.849	222,000	109	113	1.26 J	119,000	2.96 J+
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	181	1.23 J	210,000	111	115	1.27 J	117,000	2.86 J+
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	50 J	<0.849	202,000	58.4	154	<0.816	115,000	3.6
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	72.6 J	<0.849	222,000	60.7	165	0.902 J	119,000	3.22
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	50.6 J	<0.849	236,000	40.3	225	0.932 J	126,000	3.88
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	49.1 J	<0.849	234,000	41.1	225	0.866 J	123,000	3.85
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	<28.1	<0.849	268,000	35.1	254	1.5 J	129,000	4.61
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	<28.1	<0.849	266,000	36.8	251	1.34 J	129,000	5.2
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	<28.1	<0.849	435,000	505	123	3.35	138,000	54.3
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	<28.1	<0.849	434,000	261	114	1.87 J	138,000	57.7
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	<28.1	2.85	400,000	153	122	4.47	134,000	57
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	31.2 J	<0.849	427,000	125	131	1.3 J	149,000	60.5
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	<28.1	<0.849	428,000	94.7	138	1.95 J	145,000	60.5
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	147	<0.849	150,000	153	80.4	<0.816	99,300	0.76 J
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	141	<0.849	153,000	152	80.7	<0.816	103,000	0.761 J
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	161	<0.849	157,000	104	125	<0.816	103,000	0.518 J
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	189	<0.849	156,000	109	127	2.23	101,000	0.569 J
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	129	<0.849	174,000	79.4	193	<0.816	106,000	0.448 J
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	137	<0.849	177,000	76.8	190	<0.816	110,000	<0.3
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	130 J+	<0.849	186,000	50.5	248	<0.816	116,000	<0.3
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	131 J+	<0.849	188,000	52	244	<0.816	117,000	0.37 J
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	74.8 J	<4.24	213,000	53.4	278	<0.816	115,000	1.35 J
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	80.4 J	<4.24	212,000	54.8	279	<0.816	116,000	1.4 J

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Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	<28.1	<0.849	228,000	58.4	64.3	4.11	134,000	26.9
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	44.5 J	<0.849	247,000	10.4	75.7	2.97	140,000	32.4
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	<28.1	<0.849	248,000	7.95	71.2	1.51 J	140,000	29.4
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	51.8 J	<0.849	256,000	18	70.3	1.74 J	139,000	30.3
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	38.2 J	<0.849	222,000	10.8	68.8	1.57 J	112,000	27.2
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	<28.1	<0.849	431,000	186	158	1.44 J	146,000	52.9
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	43.1 J	<0.849	436,000	127	156	1.84 J	144,000	64.8
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	29.5 J	<0.849	431,000	89.4	161	1.02 J	139,000	66.3
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	46.3 J	<0.849	418,000	76	159	1.14 J	148,000	65
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	<28.1	<0.849	405,000	56.3	148	1.53 J	137,000	58.2
Test Area 2C																
Pre-Construction Baseline Results																
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	267,000	43.3	96.9	3.26	141,000	40.2
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<28.1	----	----	95.2	----	----	----	----
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<28.1	<0.849	243,000	<0.704	102	2.42	131,000	39.7
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<28.1	<0.849	263,000	<0.704	96.8	2.23	137,000	40.2
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	<28.1	<0.849	241,000	28.8	96.8	2.94	116,000	43
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	<28.1	<0.849	268,000	5.99	110	2.79	135,000	39.5
Post-Construction Performance Monitoring Results																
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	245,000	<0.704	98.8	2.25	118,000	39.9
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	234,000	<0.704	101	2.28	118,000	40.9
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	238,000	<0.704	101	2.05	116,000	37.7
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	229,000	<0.704	98.9	2.02	116,000	38.6
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	258,000	0.837 J	98.3	2.3	117,000	38.7
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	246,000	<0.704	98.6	2.19	114,000	37.8
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	241,000	<0.704	92.3	1.59 J	112,000	35.4
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	237,000	<0.704	91.5	1.49 J	110,000	35.6
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	254,000	6.12	96.6	2.18	103,000	35
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<28.1	<0.849	252,000	5.63	97	2.37	103,000	36.4
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<28.1	<0.849	232,000	0.704 J	95.5	2.4	121,000	39.1
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<28.1	<0.849	231,000	<0.704	101	2.2	113,000	38.6
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<28.1	<0.849	242,000	<0.704	97.9	2.21	118,000	37.8
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<28.1	<0.849	231,000	<0.704	91.3	1.57 J	110,000	34.9
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<28.1	<0.849	233,000	<0.704	92.9	2.26	105,000	37.6
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<28.1	<0.849	244,000	2 J	102	2.48	96,300	40
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<28.1	<0.849	237,000	<0.704	100	2.29	100,000	36.9
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<28.1	<0.849	236,000	0.951 J	92.1	2.23	115,000	36.3
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	34.4 J	<0.849	230,000	0.927 J	92.6	2.57	95,000	35.9
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<28.1	<0.849	251,000	<0.704	99.2	2.47	93,100	36.2
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	34.8 J	<0.849	238,000	2.33 J	95	3.82	122,000	39.5
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<28.1	<0.849	228,000	<0.704	97.6	2.26	122,000	36.7
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	43.9 J	<0.849	251,000	3.01 J	95.2	2.46	103,000	37.4
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<28.1	<0.849	247,000	<0.704	94.5	2.02	114,000	36.2
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<28.1	<0.849	240,000	1.51 J	95.2	2.1	108,000	36.6

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Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	<28.1	<0.849	173,000	273	41.5	1.56 J	86,500	16.9
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	<28.1	<0.849	191,000	229	51.5	1.64 J	93,000	19
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	95.2 J	<0.849	179,000	159	34.5	1.28 J	87,300	17.4
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	<28.1	<0.849	182,000	165	33.3	<0.816	83,300	13.6
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	<28.1	<0.849	158,000	152	28.3	1.07 J	80,900	12.3
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	243 J+	<0.849	231,000	165	78	3.05	114,000	28.1
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	29.8 J	<0.849	244,000	83.5	77.1	2.36	112,000	26.2
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	73.7 J	<0.849	243,000	89.4	86.7	2.24	120,000	32.3
ZTS-MW182	11/28/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	----	----	----	----	----	----	----	----
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	178	<0.849	223,000	107	76.5	2.38	107,000	28.5
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	69.5 J	<0.849	261,000	52.2	91.3	2.02	104,000	29.5
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	<28.1	<0.849	231,000	54.4	91.9	3.53	112,000	31.8
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	<28.1	<0.849	233,000	6.42	88.7	1.94 J	108,000	34.7
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	<28.1	<0.849	255,000	2.86 J	100	2.17	126,000	40.9
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	58.3 J	<0.849	235,000	2.75 J	92	2.43	111,000	35.7
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	31.7 J	<0.849	238,000	1.36 J	96.3	1.96 J	109,000	35.7
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	<28.1	<0.849	226,000	89.4	88.2	2.25	119,000	31.1
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	51 J	<0.849	252,000	54.8	93.4	2.69	120,000	39.7
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	<28.1	<0.849	197,000	19.5	82.1	1.09 J	113,000	36.5
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	<28.1	<0.849	234,000	13.6	83.1	2.13	113,000	32.9
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	<28.1	<0.849	207,000	24.6	89	2.12	105,000	32
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	33.9 J	<0.849	242,000	28.4	92.7	10.1	119,000	37.4
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	<28.1	0.875 J	250,000	0.895 J	96.3	2.43	116,000	41.4
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	<28.1	<0.849	210,000	<0.704	92.2	1.46 J	116,000	40.9
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	33.2 J	<0.849	231,000	1.85 J	86.5	1.4 J	110,000	35.2
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	<28.1	<0.849	232,000	1.89 J	92.7	2.37	97,200	36.4
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	30.8 J	<0.849	225,000	78.9	97.6	7.89	113,000	32.4
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	<28.1	<0.849	253,000	34	100	2.71	117,000	36
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	<28.1	<0.849	223,000	33 J+	86.3	2.48	111,000	33.3
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	<28.1	<0.849	222,000	4.33 J	89.4	1.54 J	107,000	32.9
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	<28.1	<0.849	240,000	8.03	95.7	2.21	119,000	34.3
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	<28.1	<0.849	227,000	8.31	94.1	2.47	101,000	36.3
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	<28.1	<0.849	216,000	5.39	79.2	1.86 J	88,600	36.1
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	<28.1	<0.849	250,000	1.03 J	100	2.32	116,000	40.5
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	<28.1	<0.849	235,000	<0.704	89	7.02	113,000	36.1
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	<28.1	<0.849	241,000	0.819 J	98.8	3.07	107,000	37.2
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	<28.1	<0.849	87,100	318	6.42	1.63 J	63,500	0.524 J
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	52.2 J	<0.849	99,600	446	8.67	1.01 J	67,700	1.29 J
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	97.4 J	<0.849	76,200	425	3.64 J	<0.816	61,700	<0.3
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	<28.1	<0.849	123,000	314	9.68	0.941 J	71,600	5.74
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	<28.1	<0.849	88,000	166	2.36 J	<0.816	65,100	0.501 J
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	35.5 J	<0.849	240,000	8.18	89.2	8.23	104,000	36.4
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	<28.1	<0.849	254,000	1.02 J	95.1	2.18	109,000	40.4
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	<28.1	<0.849	210,000	<0.704	83.4	1.81 J	105,000	34.8

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	<28.1	<0.849	234,000	0.904 J	85.2	1.44 J	111,000	35.2
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	<28.1	<0.849	232,000	<0.704	92.4	2.05	97,400	35.2
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	<28.1	<0.849	235,000	6.18	91.5	6.08	111,000	34.7
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	<28.1	<0.849	245,000	0.725 J	95.2	2.13	114,000	38.9
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	<28.1	<0.849	208,000	<0.704	85.4	1.81 J	107,000	35.5
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	30.8 J	<0.849	250,000	1.45 J	91.5	2.24	119,000	37
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	<28.1	<0.849	236,000	<0.704	92.6	2.09	107,000	35.2
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	<28.1	<0.849	227,000	8.02	85.6	6.98	143,000	36.3
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	<28.1	<0.849	220,000	0.742 J	85.8	2.04	139,000	36.2
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	<28.1	<0.849	220,000	<0.704	85.8	2.1	134,000	38.1
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	<28.1	<0.849	247,000	<0.704	83.7	2.26	137,000	36.9
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	<28.1	<0.849	222,000	<0.704	84.9	1.99 J	127,000	36.1
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Pre-Construction Baseline Results																
LVWPS-MW102A	10/21/2022	N	BL02	NA	Downgradient	30	UMCf	47.0 - 66.6	<28.1	<0.849	910,000	20	73.1	<0.816	519,000	56.5
LVWPS-MW102B	10/21/2022	N	BL02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<28.1	<84.9	5,840,000	204	<34.8	<0.816	4,840,000	<0.3
LVWPS-MW107A	10/24/2022	N	BL02	NA	Downgradient	50	Alluvium	24.8 - 34.5	<28.1	<0.849	248,000	<0.704	92.1	2.01	123,000	38.8
LVWPS-MW107B	10/21/2022	N	BL02	NA	Downgradient	50	UMCf	46.0 - 65.8	<28.1	<0.849	387,000	14.5	<0.348	<0.816	546,000	<0.3
LVWPS-MW107C	10/24/2022	N	BL02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<28.1	<84.9	6,410,000	314	<34.8	<0.816	5,770,000	<0.3
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	<28.1	----	----	132	----	----	----	----
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	<28.1	<0.849	241,000	20.4	71	2.28	189,000	16.4
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	<28.1	----	----	379	----	----	----	----
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	<28.1	<0.849	269,000	172	31.3	3.66	139,000	30.5
Post-Construction Performance Monitoring Results																
LVWPS-MW102A	5/30/2023	N	PM01	NA	Downgradient	30	UMCf	47.0 - 66.6	<28.1	<0.849	874,000	23.9	81.8	<0.816	514,000	55.8
LVWPS-MW102A	8/23/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	<28.1	<0.849	876,000	23.7	85	0.842 J	491,000	65.5
LVWPS-MW102A	10/11/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	NA	Downgradient	30	UMCf	47.0 - 66.6	28.8 J	<0.849	699,000	20.3	88.7	1.25 J	401,000	62.1
LVWPS-MW102A	2/27/2024	N	PM04	NA	Downgradient	30	UMCf	47.0 - 66.6	<28.1	1.42 J	850,000	30	103	0.937 J	499,000	63.5
LVWPS-MW102A	5/23/2024	N	PM05	NA	Downgradient	30	UMCf	47.0 - 66.6	<28.1	<0.849	798,000	27.6	107	<0.816	437,000	62.1
LVWPS-MW102B	5/26/2023	N	PM01	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	89.9 J	<42.4	5,920,000	183	<17.4	<0.816	4,840,000	<0.3
LVWPS-MW102B	8/23/2023	N	PM02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<281	<8.49	5,840,000	183	<3.48	<8.16	4,790,000	5.59 J
LVWPS-MW102B	12/1/2023	N	PM03	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<281	<8.49	5,330,000	178	<3.48	<8.16	4,590,000	<3
LVWPS-MW102B	2/27/2024	N	PM04	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	61.8 J	<8.49	5,790,000	217	<3.48	<0.816	4,910,000	<0.3
LVWPS-MW102B	5/23/2024	N	PM05	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<28.1	<8.49	6,090,000	204	<0.348	<0.816	4,910,000	<0.3
LVWPS-MW107A	5/23/2023	N	PM01	NA	Downgradient	50	Alluvium	24.8 - 34.5	<28.1	<0.849	228,000	174	58.7	2.65	122,000	6.31
LVWPS-MW107A	8/24/2023	N	PM02	NA	Downgradient	50	Alluvium	24.8 - 34.5	<28.1	<0.849	237,000	84.8	45.5	2.36	126,000	2.03
LVWPS-MW107A	11/30/2023	N	PM03	NA	Downgradient	50	Alluvium	24.8 - 34.5	<28.1	<0.849	206,000	86.6	31.7	2.1	131,000	1.64 J
LVWPS-MW107A	2/22/2024	N	PM04	NA	Downgradient	50	Alluvium	24.8 - 34.5	<28.1	<0.849	212,000	69.1	29.8	1.44 J	124,000	1.58 J
LVWPS-MW107A	5/28/2024	N	PM05	NA	Downgradient	50	Alluvium	24.8 - 34.5	<28.1	<0.849	225,000	81.4	41.4	2.12	129,000	5.99
LVWPS-MW107B	5/23/2023	N	PM01	NA	Downgradient	50	UMCf	46.0 - 65.8	39.1 J	<0.849	369,000	12.8	0.62 J	<0.816	492,000	<0.3
LVWPS-MW107B	8/24/2023	N	PM02	NA	Downgradient	50	UMCf	46.0 - 65.8	68.5 J	<0.849	161,000	14.7	3.03 J	3.97	211,000	1.31 J
LVWPS-MW107B	12/1/2023	N	PM03	NA	Downgradient	50	UMCf	46.0 - 65.8	<28.1	<0.849	76,100	1.71 J	4.55 J	<0.816	113,000	2.17

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									Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107B	2/23/2024	N	PM04	NA	Downgradient	50	UMCf	46.0 - 65.8	72.6 J	<0.849	361,000	14.3	0.476 J	<0.816	497,000	<0.3
LVWPS-MW107B	5/24/2024	N	PM05	NA	Downgradient	50	UMCf	46.0 - 65.8	52.5 J	<0.849	379,000	12.9	0.384 J	<0.816	522,000	<0.3
LVWPS-MW107C	5/23/2023	N	PM01	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	50.8 J	<17	5,950,000	206	<0.348	<0.816	5,590,000	<0.3
LVWPS-MW107C	8/24/2023	N	PM02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<281	<8.49	6,020,000	263 J+	19.2 J	<8.16	5,510,000	<3
LVWPS-MW107C	12/1/2023	N	PM03	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<281	<8.49	5,590,000	187	<3.48	<8.16	5,340,000	<3
LVWPS-MW107C	2/23/2024	N	PM04	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<562	<17	6,450,000	232	<6.96	<16.3	6,000,000	<6
LVWPS-MW107C	5/28/2024	N	PM05	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<28.1	<0.849	228,000	<0.704	95.2	1.91 J	120,000	37
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	<28.1	<0.849	255,000	17.8	77.8	1.32 J	204,000	14.4
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	<28.1	<0.849	258,000	11.3	75.7	1.3 J	197,000	14.8
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	424	<0.849	272,000	14.3	83	45.5	205,000	16.3
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	<28.1	<0.849	285,000	5.31	84.9	1.24 J	219,000	18.7
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	<28.1	<0.849	258,000	3.13 J	75.7	1.13 J	209,000	15.4
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	<28.1	<0.849	271,000	53.6	29.5	2.42	145,000	26.9
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	<28.1	<0.849	262,000	6.53	31.9	2.29	129,000	28.2
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	<28.1	<0.849	284,000	3.89 J	36.5	2.41	130,000	31
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	<28.1	<0.849	245,000	49.5	24.6	2.06	148,000	19.1
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	98.6 J	<0.849	264,000	26.4	33.3	2.58	133,000	27

Notes:
1. Distances from the discontinuous or continuous walls are shown as negative values for upgradient monitoring wells, as
bgs - below ground surface
J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be
< The analyte was analyzed for, but was not detected above the level of the reported sample
mg/L - milligram per liter
mS/cm - milliSiemens per centimeter
mV - millivolts
nmol - nanomol
SU - standard units
N - normal field sample
µg/L - micrograms per liter
UMCf - Upper Muddy Creek formation
FD - field duplicate
FS - field split

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Test Area 1A																
Pre-Construction Baseline Results																
ZTS-MW143	10/18/2022	N	BL02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.07	695,000	12,100	<0.121	<0.655	<2.18	27	91.5
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	----	----	----	----
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	----	----	----	----
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<0.07	591,000 J	12,400 J	<0.121	<0.655	<2.18	25.2 J	<3.02
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<0.07	4,440 J	91.5 J	<0.121	<0.655	<2.18	<0.664 UJ	<3.02
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	----	----
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.07	501,000	11,800	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW125	10/24/2022	FD	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	----	----
ZTS-MW144	10/18/2022	N	BL02	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.07	768,000	13,900	<0.121	<0.655	<2.18	23.5	125
Post-Construction Performance Monitoring Results																
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.07	671,000	12,200	<0.121	0.951 J	<2.18	24.4	<3.02
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.07	619,000	12,400	<0.121	1.91 J	<2.18	24.7	<3.02
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.07	675,000	13,500	<0.121	<0.655	<2.18	27.1	<3.02
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.07	726,000	13,900	<0.121	<0.655	<2.18	28.8	<3.02
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.07	625,000	11,100	<0.121	<0.655	<2.18	25.3	<3.02
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.07	598,000	10,400	<0.121	0.761 J	<2.18	25.3	<3.02
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.07	548,000	10,300	<0.121	<0.655	<2.18	25.3	<3.02
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.07	605,000	11,700	<0.121	<0.655	<2.18	25	<3.02
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.07	642,000	13,100	<0.121	<0.655	<2.18	25.3	3.24 J
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.07	540,000	11,000	<0.121	<0.655	<2.18	24.2	<3.02
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.07	473,000	12,100	<0.121	0.743 J	<2.18	1.77 J	12.2 J
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.07	488,000	12,400	<0.121	<0.655	<2.18	2.21 J	<3.02
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.07	494,000	14,000	<0.121	<0.655	<2.18	1.48 J	<3.02
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.07	500,000	12,500	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.07	515,000	13,400	<0.121	<0.655	<2.18	0.972 J	<3.02
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	641,000	11,400	<0.121	1.15 J	<2.18	25.5	<3.02
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	574,000	12,300	<0.121	<0.655	<2.18	24.3	3.14 J
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	637,000	12,900	<0.605	<0.655	<2.18	25.4	<3.02
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	651,000	13,500	<0.121	<0.655	<2.18	25.6	<3.02
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	645,000	12,000	<0.121	<0.655	<2.18	26	<3.02
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	643,000	12,000	0.124 J	<0.655	<2.18	25.8	<3.02
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0.0734 J	578,000	12,100	0.248 J	0.661 J	<2.18	24.3	4.01 J
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	627,000	13,000	0.152 J	<0.655	<2.18	25.9	<3.02
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	648,000	12,700	0.13 J	<0.655	<2.18	26.8	<3.02
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.07	670,000	12,000	0.128 J	<0.655	<2.18	26.3	<3.02
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.07	575,000	9,940	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.07	558,000	10,500	<0.121	<0.655	<2.18	<0.664	3.58 J
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.07	634,000	11,500	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.07	639,000	13,700	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.07	535,000	10,500	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	628,000	10,400	<0.121	<0.655	<2.18	<0.664	6.88
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	590,000	10,800	<0.121	<0.655	<2.18	<0.664	<3.02

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Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	651,000	12,900	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	686,000	11,700	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	619,000	10,600	<1.21	<0.655	<2.18	<0.664	<3.02
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	646,000	11,500	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	638,000	11,400	<0.121	1.79 J	<2.18	<0.664	<3.02
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	633,000	12,400	<0.121	<0.655	<2.18	<0.664	16.1 J
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	635,000	11,200	<0.121	<0.655	<2.18	<0.664	17.1 J
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	680,000	12,100	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	689,000	11,700	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	680,000	12,500	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	662,000	12,000	<0.121	<0.655	<2.18	<0.664	3.36 J
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	572,000	10,900	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.07	583,000	10,400	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.07	641,000	11,400	0.124 J	<0.655	<2.18	6.68	<3.02
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.07	598,000	11,400	<0.121	<0.655	<2.18	7.15	3.52 J
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.07	649,000	13,300	<0.121	<0.655	<2.18	5.91	<3.02
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.07	649,000	13,300	<0.121	<0.655	<2.18	4.28 J	<3.02
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.07	623,000	12,100	<0.121	<0.655	<2.18	4.27 J	<3.02
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	651,000	11,200	0.147	<0.655	<2.18	<0.664	3.97
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	650,000	11,700	<0.121	<0.655	<2.18	<0.664	5.79
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	613,000	11,900	<0.121	<0.655	<2.18	3.89 J	3.14 J
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	664,000	12,500	<0.121	<0.655	<2.18	4.25 J	3.56 J
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	671,000	13,600	<0.121	<0.655	<2.18	3.38 J	<3.02
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	715,000	14,000	<0.121	<0.655	<2.18	3.49 J	<3.02
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	720,000	13,900	<0.121	<0.655	<2.18	2.95 J	<3.02
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	723,000	14,000	<0.121	<0.655	<2.18	2.8 J	<3.02
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	637,000	11,900	<0.605	<0.655	<2.18	2.91 J	<3.02
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.07	651,000	12,100	<0.605	<0.655	<2.18	2.97 J	<3.02
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.07	476,000	6,190	<0.121	0.688	<2.18	<0.664	4.42
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.07	464,000	6,540	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.07	452,000	6,270	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.07	525,000	7,290	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.07	537,000	8,250	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.07	671,000	10,900	<0.121	<0.655	<2.18	2.76 J	4.21 J
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.07	640,000	12,100	<0.121	<0.655	<2.18	2.53 J	<3.02
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.07	622,000	12,600	<0.121	<0.655	<2.18	2.13 J	<3.02
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.07	715,000	13,200	<0.121	<0.655	<2.18	2.15 J	<3.02
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.07	630,000	11,100	<0.121	<0.655	<2.18	2.15 J	<3.02
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	654,000	11,700	<0.121	0.904 J	<2.18	14.5	<3.02
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	603,000	11,700	<0.121	<0.655	<2.18	10.4	3.52 J
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	653,000	13,500	<0.121	<0.655	<2.18	10.8	<3.02
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	679,000	13,300	<0.121	<0.655	<2.18	8.86	<3.02
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	647,000	13,300	<0.121	<0.655	<2.18	8.4	<3.02
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	692,000	11,700	0.145 J	<0.655	<2.18	5.33	<3.02

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	738,000	12,600	<0.121	<0.655	<2.18	5.14	<3.02
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	617,000	12,100	<0.121	<0.655	<2.18	4.56 J	<3.02
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	729,000	14,000	<0.121	<0.655	<2.18	6	<3.02
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	635,000	12,800	<0.121	<0.655	<2.18	5.68	<3.02
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	668,000	12,500	<0.121	<0.655	<2.18	6.12	<3.02
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	626,000	10,900	<0.121	0.761 J	<2.18	5.59	20.4 J
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	624,000	13,500	<0.121	<0.655	<2.18	3.85 J	<3.02
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	737,000	14,400	<0.121	<0.655	<2.18	3.37 J	<3.02
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.07	676,000	13,300	<0.121	<0.655	<2.18	4.47 J	<3.02
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.07	591,000	10,600	<0.121	<0.655	<2.18	20	<3.02
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.07	629,000	11,800	<0.121	<0.655	<2.18	25	4.61 J
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.07	586,000	12,700	<0.121	<0.655	<2.18	22.2	<3.02
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.07	680,000	13,500	<0.121	<0.655	<2.18	23.3	<3.02
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.07	629,000	12,000	<0.121	<0.655	<2.18	24.3	<3.02
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.07	679,000	11,000	0.121 J	<0.655	<2.18	9.21	<3.02
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.07	678,000	12,200	0.192 J	<0.655	<2.18	10.8	15.5 J
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.07	654,000	12,800	0.149 J	<0.655	<2.18	10.6	<3.02
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.07	726,000	13,400	0.156 J	<0.655	<2.18	10.8	5.32 J
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.07	648,000	12,600	0.254 J	<0.655	<2.18	9.77	<3.02
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.07	681,000	12,800	<0.121	<0.655	<2.18	10.3	<3.02
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.07	653,000	12,100	<0.121	<0.655	<2.18	8.4	<3.02
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.07	649,000	13,500	<0.121	<0.655	<2.18	12.8	<3.02
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.07	702,000	13,900	0.121 J	<0.655	<2.18	12.7	<3.02
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.07	654,000	12,300	<0.605	<0.655	<2.18	12.2	<3.02
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.07	451,000	10,300	<0.121	<0.655	<2.18	2.51 J	5.36 J
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.07	620,000	11,300	<0.121	<0.655	<2.18	12.4	<3.02
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.07	678,000	12,700	<0.121	<0.655	<2.18	14.7	3.18 J
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.07	627,000	13,000	<0.121	<0.655	<2.18	12.4	<3.02
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.07	591,000	11,800	<0.605	<0.655	<2.18	11.9	4.61 J
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.07	613,000	12,400	0.161 J	<0.655	<2.18	16.8	<3.02
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.07	614,000	12,100	0.259 J	<0.655	<2.18	17	<3.02
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.07	681,000	13,100	0.204 J	<0.655	<2.18	16.6	7.45 J
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.07	672,000	12,900	0.251 J	<0.655	<2.18	15.6	<3.02
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.07	657,000	11,900	0.216 J	<0.655	<2.18	17.6	<3.02
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.07	634,000	11,100	<0.121	0.75 J	<2.18	18.1	<3.02
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.07	616,000	11,600	<0.121	<0.655	<2.18	15.8	<3.02
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.07	614,000	11,100	<0.121	<0.655	<2.18	15.7	3.07 J
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.07	646,000	12,700	<0.121	<0.655	<2.18	17.4	<3.02
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.07	643,000	13,000	<0.121	<0.655	<2.18	17	<3.02
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	0.0793 J	671,000	13,500	0.137 J	<0.655	<2.18	16.9	<3.02
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.07	682,000	13,700	0.123 J	<0.655	<2.18	17.4	<3.02
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.07	693,000	11,600	0.147 J	<0.655	<2.18	18.7	<3.02
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.07	675,000	11,900	0.129 J	<0.655	<2.18	18.2	<3.02
Between Test Area 1A and Test Area 1B																

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Pre-Construction Baseline Results																
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.07	549,000	6,830	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.07	669,000	11,600	<0.121	<0.655	<2.18	6.72	<3.02
Post-Construction Performance Monitoring Results																
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.07	192,000	1,880	<0.121	0.946 J	<2.18	1.17 J	20.7 J
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.07	491,000	4,320	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.07	535,000	4,730	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.07	438,000	4,100	<0.121	<0.655	<2.18	0.681 J	<3.02
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.07	467,000	4,240	<0.121	<0.655	<2.18	<0.664	7.98 J
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.07	634,000	7,920	<0.121	0.778 J	<2.18	<0.664	3.14 J
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.07	707,000	9,820	<0.121	<0.655	<2.18	<0.664	5.77 J
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.07	654,000	10,000	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.07	754,000	10,200	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.07	680,000	9,020	<0.121	<0.655	<2.18	<0.664	<3.02
Test Area 1B																
Pre-Construction Baseline Results																
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.07	770,000	14,100	<0.121	<0.655	<2.18	20.8	<3.02
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.07	680,000	13,100	<0.121	<0.655	<2.18	21.2	<3.02
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.07	770,000	15,600	<0.121	<0.655	<2.18	22.7	<3.02
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	----	----	----	----	----	----	----	----
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	<0.07	685,000	14,500	<0.121	2.39	<2.18	19.2	<3.02
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.07	672,000	14,000	<0.121	<0.655	<2.18	19.5	<3.02
Post-Construction Performance Monitoring Results																
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.07	726,000	12,600	0.137 J	1.19 J	<2.18	19.9	<3.02
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.07	686,000	11,800	0.131 J	0.683 J	<2.18	18.3	<3.02
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.07	712,000	12,000	0.138 J	<0.655	<2.18	20	<3.02
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0.16 J	714,000	12,300	<0.121	<0.655	<2.18	20.6	<3.02
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.7	8,790,000	8,610	<1.21	<6.55	<21.8	<6.64	<30.2
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.07	652,000	13,900	0.212 J	<0.655	<2.18	26.1	3.26 J
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.07	665,000	12,200	0.141 J	<0.655	<2.18	24.1	4.03 J
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.07	699,000	13,500	0.146 J	<0.655	<2.18	25.5	11.2 J
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.07	757,000	13,400	0.145 J	<0.655	<2.18	26.3	<3.02
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.07	673,000	12,100	0.133 J	<0.655	<2.18	24.5	<3.02
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.07	711,000	15,300	<0.121	<0.655	<2.18	19.7	<3.02
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.07	712,000	15,300	<0.121	<0.655	<2.18	20.8	<3.02
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.07	717,000	14,700	<0.121	<0.655	<2.18	21	7 J
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.07	763,000	14,500	<0.121	<0.655	<2.18	22.1	<3.02
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.07	662,000	12,500	<0.121	<0.655	2.27 J	19.3	<3.02
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.07	745,000	15,000	<0.121	0.762 J	<2.18	18.5	5.26 J
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.07	736,000	13,000	<0.121	<0.655	<2.18	21.1	<3.02
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.07	711,000	12,800	<0.121	<0.655	<2.18	19.9	10.2 J
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.07	761,000	12,300	<0.121	<0.655	<2.18	21.2	<3.02
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.07	732,000	11,600	<0.121	<0.655	<2.18	21.4	<3.02

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.07	587,000	11,000	0.134 J	<0.655	<2.18	15.5	6.72 J
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	0.0773 J	593,000	11,200	0.246 J	0.835 J	<2.18	19	<3.02
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.07	632,000	12,100	0.137 J	<0.655	<2.18	19.9	8.12 J
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.07	671,000	12,000	0.148 J	<0.655	<2.18	20.3	4.49 J
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.07	631,000	11,100	0.183 J	<0.655	<2.18	18.5	<3.02
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.07	711,000	13,500	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.07	617,000	10,900	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.07	752,000	13,800	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.07	718,000	12,300	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.07	650,000	11,400	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.07	713,000	13,300	<0.121	0.831 J	<2.18	<0.664	<3.02
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.07	678,000	11,600	<0.121	0.703 J	<2.18	<0.664	3.71 J
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.07	749,000	11,600	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.07	713,000	13,500	<0.121	<0.655	<2.18	12.3	<3.02
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.07	708,000	11,200	<0.605	<0.655	<2.18	<0.664	<3.02
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.07	702,000	14,300	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.07	677,000	12,200	<0.121	<0.655	<2.18	<0.664	3.81 J
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.07	660,000	13,200	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.07	679,000	12,000	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.07	640,000	12,100	<0.121	<0.655	<2.18	0.826 J	<3.02
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.07	711,000	13,600	0.175 J	<0.655	<2.18	3.28 J	<3.02
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.07	646,000	11,900	<0.121	<0.655	<2.18	2.42 J	<3.02
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.07	759,000	12,900	<0.121	<0.655	<2.18	3.37 J	29.1
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.07	706,000	12,600	<0.121	<0.655	<2.18	2.75 J	<3.02
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.07	750,000	14,000	<0.121	<0.655	<2.18	1.87 J	<3.02
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	717,000	13,800	0.149 J	<0.655	<2.18	12	<3.02
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	707,000	13,400	0.134 J	<0.655	<2.18	12.2	<3.02
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	754,000	13,200	0.13 J	<0.655	<2.18	6.23	4.21 J
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	774,000	13,300	0.159 J	<0.655	<2.18	5.91	<3.02
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	698,000	12,500	0.136 J	<0.655	<2.18	4.29 J	<3.02
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	670,000	11,900	0.125 J	<0.655	<2.18	4.17 J	<3.02
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	716,000	11,700	<0.121	<0.655	<2.18	3.99 J	<3.02
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	711,000	12,600	<0.121	<0.655	<2.18	3.84 J	<3.02
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	709,000	11,500	<0.605	<0.655	<2.18	6.34	<3.02
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.07	793,000	13,100	<0.605	<0.655	<2.18	5.98	<3.02
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.07	532,000	9,080	<0.121	0.941 J	<2.18	5.38	3.46 J
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.07	526,000	9,020	<0.121	0.851 J	<2.18	3.86 J	7.7 J
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.07	500,000	9,820	<0.121	<0.655	<2.18	2.23 J	<3.02
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.07	617,000	11,300	<0.121	<0.655	<2.18	8.19	<3.02
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.07	594,000	10,500	<0.605	<0.655	<2.18	10.1	<3.02
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.07	680,000	14,600	0.306 J	<0.655	<2.18	12.9	<3.02
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.07	770,000	14,500	0.235 J	<0.655	<2.18	9.52	<3.02
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.07	689,000	14,100	0.169 J	<0.655	<2.18	6.26	<3.02
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.07	717,000	13,800	0.233 J	<0.655	<2.18	3.91 J	<3.02

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.07	658,000	13,600	<0.121	<0.655	<2.18	3.74 J	<3.02
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	728,000	13,300	0.233 J	<0.655	<2.18	9.61 J+	3.32 J
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	695,000	11,900	0.134 J	<0.655	<2.18	6.8	<3.02
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	648,000	12,300	0.142 J	<0.655	<2.18	5.73	<3.02
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	728,000	12,600	0.139 J	<0.655	<2.18	6.08	<3.02
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	728,000	14,100	0.283 J	<0.655	<2.18	5.82	<3.02
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.07	732,000	13,700	0.196 J	<0.655	<2.18	9.17 J+	4.25 J
ZTS-MW174	5/26/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.07	648,000	12,000	0.15 J	1.08 J	<2.18	6.94	10.7 J
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.07	653,000	11,300	0.188 J	<0.655	<2.18	7.56	6.4 J
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.07	717,000	12,400	0.193 J	<0.655	<2.18	7.98	<3.02
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.07	729,000	11,200	0.164 J	<0.655	<2.18	6.71	<3.02
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	708,000	14,200	0.184 J	0.774 J	<2.18	8.16	<3.02
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	784,000	13,900	0.174 J	<0.655	<2.18	9.29	<3.02
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	631,000	13,100	<0.121	<0.655	<2.18	9.01	<3.02
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	734,000	13,500	<0.121	<0.655	<2.18	7.5	<3.02
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.07	666,000	12,800	<0.121	<0.655	<2.18	7.32	<3.02
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	674,000	13,700	<0.121	<0.655	<2.18	22.2	4.21 J
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	646,000	14,100	0.138 J	<0.655	<2.18	20.8	<3.02
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	661,000	14,600	<0.121	<0.655	<2.18	24.2	5.27 J
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	671,000	14,000	<0.121	<0.655	<2.18	24.5	<3.02
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	657,000	14,000	<0.121	<0.655	<2.18	21.2	<3.02
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	677,000	14,400	<0.121	<0.655	<2.18	21.3	<3.02
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	711,000	14,000	<0.121	<0.655	<2.18	21.3	<3.02
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	698,000	14,500	<0.121	<0.655	<2.18	22	<3.02
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	681,000	12,300	<0.121	<0.655	<2.18	21.3	<3.02
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.07	701,000	12,200	<0.121	<0.655	<2.18	21.5	<3.02
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.07	708,000	13,400	0.189 J	<0.655	<2.18	10.4	<3.02
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.07	779,000	13,400	0.25 J	<0.655	<2.18	10.7	4.61 J
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.07	733,000	12,800	0.231 J	<0.655	<2.18	11.8	<3.02
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.07	703,000	11,400	0.248 J	<0.655	<2.18	9.73	<3.02
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.07	662,000	9,370	0.214 J	<0.655	<2.18	8.04	<3.02
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.07	733,000	13,500	0.137 J	0.892 J	<2.18	19.5	<3.02
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.07	685,000	13,400	0.132 J	<0.655	<2.18	17.1	<3.02
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.07	629,000	12,700	0.131 J	<0.655	<2.18	14.6	<3.02
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.07	664,000	12,300	0.149 J	<0.655	<2.18	17.1	<3.02
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.07	759,000	12,400	0.144 J	<0.655	<2.18	17.1	<3.02
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.07	724,000	14,200	0.212 J	1.03 J	<2.18	21.7	<3.02

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.07	698,000	13,400	0.153 J	<0.655	<2.18	20.2	<3.02
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.07	745,000	13,700	0.16 J	<0.655	<2.18	19.5	<3.02
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.07	740,000	13,300	0.263 J	<0.655	<2.18	21	<3.02
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.07	712,000	12,600	0.169 J	<0.655	<2.18	18.8	<3.02
Test Area 2A																
Pre-Construction Baseline Results																
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.07	718,000	12,400	<0.121	<0.655	<2.18	18.4	<3.02
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	----	----	----	----
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	780,000	16,700	<0.121	<0.655	<2.18	18	<3.02
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.07	717,000	11,600	<0.121	<0.655	<2.18	14.7	<3.02
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.07	762,000	14,900	<0.121	<0.655	<2.18	12.5	<3.02
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.07	635,000	13,200	<0.121	<0.655	<2.18	19.2	<3.02
Post-Construction Performance Monitoring Results																
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.07	726,000	11,400	<0.121	<0.655	<2.18	18	<3.02
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.07	677,000	11,500	<0.121	<0.655	<2.18	20.9	3.6 J
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.07	713,000	11,000	<0.121	<0.655	<2.18	20	<3.02
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.07	695,000	11,700	<0.121	<0.655	<2.18	20.3	<3.02
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.07	724,000	10,800	<0.121	<0.655	<2.18	21.6	<3.02
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	688,000	14,300 J	2.09	<0.655	<2.18	15.2	<3.02
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	752,000	14,100	1.85 J	<0.655	<2.18	15.9	<3.02
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	788,000	13,900	<0.121	<0.655	<2.18	19.1	<3.02
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	0.137 J	699,000	14,000	0.703 J	0.932 J	<2.18	19.5	<3.02
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	717,000	13,200	<0.121	<0.655	<2.18	18.1	<3.02
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	723,000	13,100	<0.121	<0.655	<2.18	18.5	<3.02
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	735,000	13,100	<0.121	<0.655	<2.18	18.8	<3.02
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	731,000	12,900	<0.121	<0.655	<2.18	18.1	<3.02
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.07	764,000	13,100	<0.121	<0.655	<2.18	17.5	<3.02
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	0.111 J	737,000	12,400	<0.121	<0.655	<2.18	16.5	<3.02
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.07	727,000	12,400	<0.121	<0.655	<2.18	16.9	<3.02
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.07	711,000	12,400	<0.121	<0.655	<2.18	18	<3.02
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.07	724,000	11,300	<0.121	<0.655	<2.18	19.6	<3.02
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.07	713,000	11,300	<0.121	<0.655	<2.18	18.3	<3.02
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.07	672,000	11,100	<0.121	<0.655	<2.18	17.1	<3.02
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.07	686,000	11,500	<0.121	<0.655	<2.18	16.9	<3.02
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.07	706,000	10,500	<0.121	<0.655	<2.18	17.9	<3.02
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.07	709,000	11,500	<0.121	<0.655	<2.18	19.2	9.95 J
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.07	711,000	11,100	<0.121	<0.655	<2.18	19.9	<3.02
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.07	642,000	10,700	<0.121	<0.655	<2.18	15.6	<3.02
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.07	662,000	9,400	0.152 J	<0.655	<2.18	14.6	3.2 J
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.07	637,000	9,750	0.194 J	<0.655	<2.18	15.7	7.3 J
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.07	623,000	10,500	<0.121	<0.655	<2.18	10.6	<3.02
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.07	616,000	9,670	<0.121	<0.655	<2.18	9.44	<3.02
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.07	633,000	8,950	<0.121	<0.655	<2.18	15.1	<3.02
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.07	706,000	11,500	<0.121	1.15 J	<2.18	11.6	<3.02

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Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.07	665,000	11,400	<0.121	<0.655	<2.18	16.8	5.17 J
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.07	710,000	12,100	<0.121	<0.655	<2.18	19.3	<3.02
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.07	718,000	10,800	<0.121	<0.655	<2.18	18.6	<3.02
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.07	709,000	10,400	<0.605	<0.655	<2.18	18.9	<3.02
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.07	741,000	12,300	<0.121	0.667 J	<2.18	1.23 J	<3.02
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.07	642,000	11,100	<0.121	<0.655	<2.18	1.62 J	7.71 J
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.07	713,000	12,200	<0.121	<0.655	<2.18	4.2 J	<3.02
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.07	683,000	11,800	<0.121	<0.655	<2.18	6.22	<3.02
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.07	708,000	11,700	<0.121	<0.655	<2.18	5.83	<3.02
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.07	714,000	12,400	<0.121	<0.655	<2.18	14.4	<3.02
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.07	674,000	11,800	0.193 J	<0.655	<2.18	15.2	<3.02
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.07	678,000	11,400	<0.121	<0.655	<2.18	17.3	<3.02
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.07	718,000	11,800	<0.121	<0.655	<2.18	17.8	<3.02
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.07	712,000	11,700	<0.605	<0.655	<2.18	17	<3.02
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.07	684,000	10,900	0.13 J	<0.655	<2.18	17.6	3.79 J
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.07	676,000	9,660	<0.121	0.802 J	<2.18	18	5.22 J
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.07	726,000	11,800	<0.121	<0.655	<2.18	20.3	<3.02
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.07	669,000	11,000	<0.121	<0.655	<2.18	18.9	<3.02
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.07	693,000	11,500	<0.605	<0.655	<2.18	18.5	<3.02
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.07	693,000	11,300	<0.121	<0.655	<2.18	16	6.02 J
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.07	684,000	11,600	<0.121	<0.655	<2.18	15.5	<3.02
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.07	635,000	11,900	<0.121	<0.655	<2.18	16.2	<3.02
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.07	724,000	12,400	<0.121	<0.655	<2.18	18.1	<3.02
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.07	706,000	11,600	<0.605	<0.655	<2.18	18.1	<3.02
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	709,000	12,500	0.124 J	0.66 J	<2.18	15.4	<3.02
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	690,000	12,200	<0.121	<0.655	<2.18	15.9	<3.02
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	664,000	11,400	<0.121	<0.655	<2.18	14.9	<3.02
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	694,000	11,700	<0.121	<0.655	<2.18	15.6	<3.02
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	679,000	11,700	<0.121	<0.655	<2.18	16.9	<3.02
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	646,000	11,500	<0.121	<0.655	<2.18	15.6	<3.02
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	718,000	11,100	<0.121	<0.655	<2.18	18.4	<3.02
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	699,000	11,000	<0.121	<0.655	<2.18	18.6	<3.02
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	716,000	12,100	<0.121	<0.655	<2.18	16.9	<3.02
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.07	726,000	11,300	<0.121	<0.655	<2.18	17.7	<3.02
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.07	652,000	10,400	0.153 J	<0.655	<2.18	15.5	3.85 J
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.07	713,000	10,900	0.21 J	<0.655	<2.18	17.7	21.3 J
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	10/11/2023	FS	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	11/30/2023	N	PM03	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.07	554,000	9,660	<0.121	<0.655	<2.18	13.7	<3.02
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.07	551,000	8,660	<0.121	<0.655	<2.18	10.9	<3.02
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.07	658,000	11,400	0.153 J	<0.655	<2.18	18.2	<3.02
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.07	683,000	11,000	0.152 J	<0.655	<2.18	17.7	<3.02
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.07	681,000	10,400	0.136 J	<0.655	<2.18	16.4	<3.02
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.07	651,000	10,900	0.137 J	<0.655	<2.18	18.7	<3.02

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Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.07	681,000	10,600	<0.121	<0.655	<2.18	19.1	<3.02
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.07	684,000	10,800	<0.121	<0.655	<2.18	18.4	<3.02
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.07	680,000	12,100	0.131 J	<0.655	<2.18	15.3	<3.02
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.07	649,000	11,500	<0.121	<0.655	<2.18	16.2	<3.02
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.07	657,000	11,600	<0.121	<0.655	<2.18	17.1	<3.02
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.07	703,000	11,500	<0.121	<0.655	<2.18	18.9	<3.02
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.07	702,000	11,700	<0.121	<0.655	<2.18	18	<3.02
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.07	684,000	11,300	0.162 J	0.847 J	<2.18	17.7	<3.02
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.07	720,000	12,400	0.131 J	<0.655	<2.18	21.9	<3.02
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.07	611,000	12,400	0.147 J	<0.655	<2.18	18.8	<3.02
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.07	699,000	11,500	0.141 J	<0.655	<2.18	19	<3.02
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.07	714,000	11,700	<0.121	<0.655	<2.18	19	<3.02
Test Area 2B																
Pre-Construction Baseline Results																
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.07	780,000	8,890	<0.121	<0.655	<2.18	23.8	<3.02
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	----	----	----	----	----	----	----	----
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.07	426,000	3,420	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.07	416,000	3,380	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.07	704,000	11,400	<0.121	<0.655	<2.18	16.3	162
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.07	765,000	11,100	<0.121	<0.655	<2.18	24.9	39.8
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	458,000	5,240	<0.121	<0.655	<2.18	<0.664	<3.02
Post-Construction Performance Monitoring Results																
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.07	743,000	11,200	<0.121	7.29	<2.18	24.8	19.3 J
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.07	718,000	10,100	<0.121	<0.655	<2.18	24.6	<3.02
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.07	781,000	11,200	<0.121	<0.655	<2.18	26	<3.02
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.07	787,000	11,200	<0.121	<0.655	<2.18	26.4	<3.02
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	0.114 J	720,000	9,670	<0.121	<0.655	<2.18	23.2	<3.02
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.07	381,000	4,330	<0.121	0.844 J	<2.18	<0.664	3.16 J
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.07	575,000	6,240	<0.121	<0.655	<2.18	0.989 J	4.87 J
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	1.61 J	641,000	8,210	12.9	2.11	<2.18	5.8	40.9
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.07	718,000	8,540	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.07	690,000	8,510	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.07	657,000	11,600	<0.121	0.869 J	<2.18	17.5	8.21 J
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.07	703,000	11,300	<0.121	<0.655	<2.18	19.4	7.76 J
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.07	648,000	11,200	<0.121	<0.655	<2.18	17.5	<3.02
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.07	710,000	12,200	<0.121	<0.655	<2.18	15.2	<3.02
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.07	703,000	11,800	<0.121	<0.655	<2.18	18.6	5.49 J
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.07	622,000	8,550	<0.121	1.05 J	<2.18	4.53 J	3.27 J
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.07	643,000	9,590	<0.121	<0.655	<2.18	5.63	8.68 J
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.07	726,000	9,310	<0.121	<0.655	<2.18	3.97 J	<3.02
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.07	704,000	9,790	<0.121	<0.655	<2.18	3.32 J	<3.02
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	0.207 J	714,000	8,690	<0.121	<0.655	<2.18	3.64 J	1,050
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	753,000	10,200	<0.121	0.957 J	<2.18	<0.664	<3.02
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	739,000	10,100	<0.121	<0.655	<2.18	<0.664	<3.02

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									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	724,000	9,620	<0.121	<0.655	<2.18	<0.664	7.39 J
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	790,000	11,200	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	757,000	10,500	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.7	796,000	9,140	<1.21	<6.55	<21.8	<6.64	<30.2
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.07	617,000	8,300	<0.121	<0.655	<2.18	2.17 J	8.27 J
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.07	613,000	8,900	<0.121	0.766 J	<2.18	6.67	3.19 J
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.07	703,000	10,400	<0.121	<0.655	<2.18	8.86	<3.02
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.07	726,000	9,800	<0.121	<0.655	<2.18	7.97	<3.02
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.07	762,000	11,000	<0.605	<0.655	<2.18	10	<3.02
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	733,000	9,800	<0.121	<0.655	<2.18	15	4.15 J
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	685,000	8,940	<0.121	<0.655	<2.18	18.4	3.03 J
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	760,000	11,500	<0.121	<0.655	<2.18	23.9	<3.02
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	760,000	10,900	<0.121	<0.655	<2.18	23	<3.02
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.07	748,000	10,300	<0.605	<0.655	<2.18	23.8	<3.02
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.07	758,000	11,100	<0.121	0.817 J	<2.18	21.6	<3.02
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.07	699,000	10,300	0.135 J	<0.655	<2.18	22.8	<3.02
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.07	771,000	12,700	0.137 J	<0.655	<2.18	27.2	<3.02
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.07	784,000	11,900	0.167 J	<0.655	<2.18	28.4	<3.02
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.7	847,000	11,300	<1.21	<6.55	<21.8	28.4 J	<30.2
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	526,000	6,520	<0.121	<0.655	<2.18	4.77 J	8.01 J
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	548,000	7,440	<0.121	<0.655	<2.18	5.16	7.63 J
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	575,000	6,490	<0.121	<0.655	<2.18	1.74 J	<3.02
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	565,000	6,400	<0.121	<0.655	<2.18	1.93 J	<3.02
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	508,000	6,170	<0.121	<0.655	<2.18	1.58 J	<3.02
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	543,000	6,700	<0.121	<0.655	<2.18	1.42 J	3.08 J
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	611,000	7,050	<0.121	<0.655	<2.18	1.46 J	<3.02
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	602,000	6,940	<0.121	<0.655	<2.18	1.55 J	<3.02
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	619,000	6,990	<0.121	<0.655	<2.18	1.36 J	3.36 J
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.07	619,000	7,220	<0.121	<0.655	<2.18	1.26 J	3.07 J
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.07	796,000	11,700	0.165 J	0.982 J	<2.18	25.9	<3.02
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.07	825,000	11,700	0.156 J	<0.655	<2.18	28.6	<3.02
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.07	773,000	11,900	0.154 J	<0.655	<2.18	27.3	9.41 J
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.07	862,000	11,900	0.186 J	<0.655	<2.18	28.9	<3.02
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.07	819,000	11,600	0.168 J	<0.655	<2.18	26.3	<3.02
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	428,000	4,130	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	429,000	4,010	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	432,000	4,210	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	434,000	3,980	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	450,000	4,680	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	451,000	4,580	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	481,000	4,900	<0.121	<0.655	<2.18	1.12 J	31.2 J+
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	507,000	4,870	<0.121	<0.655	<2.18	1.13 J	<3.02
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	478,000	5,120	<0.605	<0.655	<2.18	0.935 J	<3.02
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.07	509,000	5,390	<0.605	<0.655	<2.18	0.914 J	<3.02

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.07	626,000	10,800	0.138 J	0.75 J	<2.18	14.4	6.16 J
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.07	734,000	11,300	0.197 J	<0.655	<2.18	17.8	3.9 J
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.07	689,000	12,100	0.126 J	<0.655	<2.18	16	<3.02
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.07	684,000	11,600	<0.121	<0.655	<2.18	11.1	<3.02
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.07	623,000	10,200	<0.121	<0.655	<2.18	14	16.8 J
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.07	807,000	12,100	<0.121	<0.655	<2.18	23.9	<3.02
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.07	881,000	12,100	<0.121	<0.655	<2.18	28.7	6.68 J
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.07	804,000	12,300	0.27 J	<0.655	<2.18	29	<3.02
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.07	872,000	12,300	0.195 J	<0.655	<2.18	29.2	<3.02
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.07	775,000	11,300	0.168 J	<0.655	<2.18	27	<3.02
Test Area 2C																
Pre-Construction Baseline Results																
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	782,000	12,100	<0.121	<0.655	<2.18	19.9	<3.02
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	----	----	----	----	----	----	----	----
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.07	701,000	13,300	<0.121	<0.655	<2.18	20.1	<3.02
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.07	755,000	13,900	<0.121	<0.655	<2.18	19.7	<3.02
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.07	716,000	13,900	<0.121	<0.655	<2.18	18.4	<3.02
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.07	686,000	12,100	<0.121	<0.655	<2.18	22.2	<3.02
Post-Construction Performance Monitoring Results																
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	698,000	11,300	<0.121	0.726 J	<2.18	19.9	<3.02
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	728,000	11,900	<0.121	<0.655	<2.18	19.6	<3.02
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	705,000	10,600	<0.121	<0.655	<2.18	19.8	<3.02
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	672,000	11,500	<0.121	<0.655	<2.18	19.6	<3.02
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	793,000	12,100	0.156 J	<0.655	<2.18	22.1	5.55 J
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	784,000	11,800	<0.121	<0.655	<2.18	21.8	4.92 J
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	723,000	12,700	<0.121	<0.655	<2.18	19.9	<3.02
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	721,000	12,600	<0.121	<0.655	<2.18	19.5	<3.02
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	752,000	12,800	<0.121	<0.655	<2.18	19.8	<3.02
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.07	752,000	12,400	<0.121	<0.655	<2.18	20	<3.02
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.07	689,000	11,000	<0.121	<0.655	<2.18	19.6	4.28 J
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.07	682,000	11,800	<0.121	<0.655	<2.18	20	<3.02
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.07	781,000	12,100	<0.121	<0.655	<2.18	21.8	5.35 J
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.07	712,000	11,400	<0.121	<0.655	<2.18	19.9	<3.02
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.07	743,000	12,200	<0.121	<0.655	<2.18	20.1	<3.02
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	703,000	12,500	<0.121	<0.655	<2.18	17.8	<3.02
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	718,000	12,700	<0.121	<0.655	<2.18	18.4	<3.02
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	749,000	11,800	<0.121	<0.655	<2.18	21.5	<3.02
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	731,000	12,100	<0.121	<0.655	<2.18	18.9	<3.02
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0.0812 J	757,000	13,300	<0.121	<0.655	<2.18	19.1	<3.02
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	729,000	11,500	<0.121	0.732 J	<2.18	20.1	<3.02
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	711,000	11,300	<0.121	<0.655	<2.18	20.1	<3.02
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	777,000	13,900	<0.121	<0.655	<2.18	20	4.17 J
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	773,000	11,700	<0.121	<0.655	<2.18	21.7	<3.02
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.07	735,000	11,300	<0.121	<0.655	<2.18	20.9	<3.02

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Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.07	480,000	6,380	<0.121	<0.655	<2.18	7.13	<3.02
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.07	515,000	7,430	<0.121	<0.655	<2.18	6.71	<3.02
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.07	493,000	6,700	<0.121	<0.655	<2.18	6.07	<3.02
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.07	484,000	6,840	<0.121	<0.655	<2.18	4.42 J	<3.02
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.07	452,000	5,650	<0.121	<0.655	<2.18	4.26 J	<3.02
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.07	709,000	13,100	<0.121	0.881 J	<2.18	9.68	12.6 J
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.07	711,000	12,400	0.143 J	<0.655	<2.18	9.81	<3.02
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.07	756,000	12,600	<0.121	<0.655	<2.18	14.2	<3.02
ZTS-MW182	11/28/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	----	----	----	----	----	----	----	----
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.07	714,000	13,600	<0.121	<0.655	<2.18	12.4	3.08 J
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.07	748,000	12,400	0.153 J	<0.655	<2.18	14.5	<3.02
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	<0.07	709,000	13,300	<0.121	0.799 J	<2.18	12.4	15 J
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	0.108 J	700,000	12,200	0.186 J	<0.655	<2.18	14.1	<3.02
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	<0.07	771,000	12,800	<0.121	<0.655	<2.18	18.7	<3.02
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	0.0965 J	740,000	12,000	<0.121	27.7	16 J	23.5	5.79 J
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	<0.07	697,000	13,500	<0.121	<0.655	<2.18	16.9	<3.02
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.07	693,000	11,700	<0.121	<0.655	<2.18	14.7	6.17 J
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.07	797,000	12,700	<0.121	<0.655	<2.18	18.2	<3.02
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.07	628,000	11,400	<0.121	<0.655	<2.18	16.4	5.5 J
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.07	740,000	11,700	<0.121	<0.655	<2.18	17.1	<3.02
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.07	664,000	13,000	<0.121	<0.655	<2.18	16.8	<3.02
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.07	711,000	13,000	<0.121	<0.655	<2.18	18.4	<3.02
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.07	830,000	12,900	<0.121	<0.655	<2.18	19.7	3.27 J
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.07	669,000	11,000	<0.121	<0.655	<2.18	19.2	<3.02
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.07	707,000	11,700	<0.121	<0.655	<2.18	18.5	<3.02
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.07	725,000	14,400	<0.121	<0.655	<2.18	17.1	3.19 J
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.07	711,000	12,200	<0.121	0.679 J	<2.18	16.4	<3.02
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.07	789,000	13,100	<0.121	<0.655	<2.18	20.7	9.45 J
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.07	697,000	13,100	<0.121	<0.655	<2.18	18.1	<3.02
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.07	682,000	13,000	<0.121	<0.655	<2.18	19.6	<3.02
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.07	733,000	11,900	<0.121	<0.655	<2.18	20.2	5.3 J
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.07	699,000	14,000	<0.121	<0.655	<2.18	17.1	4.74 J
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.07	638,000	13,100	<0.121	<0.655	<2.18	15.9	<3.02
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.07	783,000	14,400	<0.121	<0.655	<2.18	21	<3.02
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.07	755,000	12,100	<0.121	<0.655	<2.18	18.4	<3.02
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.07	701,000	13,600	<0.121	<0.655	<2.18	18.4	<3.02
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.07	324,000	2,930	<0.121	<0.655	<2.18	2.65 J	5.8 J
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.07	374,000	2,980	<0.121	<0.655	<2.18	3.39 J	3.04 J
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.07	294,000	2,470	<0.121	<0.655	<2.18	<0.664	<3.02
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.07	383,000	3,960	<0.121	<0.655	<2.18	4.1 J	<3.02
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.07	325,000	2,900	<0.121	<0.655	<2.18	1.5 J	<3.02
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.07	719,000	14,800	0.143 J	0.718 J	<2.18	17.3	3.45 J
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.07	789,000	13,100	<0.121	<0.655	<2.18	20.2	5.61 J
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.07	658,000	11,600	<0.121	<0.655	<2.18	17.7	<3.02

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.07	719,000	11,000	<0.121	<0.655	<2.18	19.7	<3.02
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.07	729,000	12,700	<0.121	<0.655	<2.18	19.4	<3.02
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.07	707,000	14,400	<0.121	<0.655	<2.18	16.4	<3.02
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.07	768,000	13,300	<0.121	<0.655	<2.18	19.3	3.11 J
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.07	667,000	12,600	<0.121	<0.655	<2.18	16.9	<3.02
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.07	783,000	11,800	<0.121	<0.655	<2.18	19.7	<3.02
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.07	745,000	12,400	<0.121	<0.655	<2.18	18.2	<3.02
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.07	688,000	12,500	<0.121	<0.655	<2.18	17	3.65 J
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.07	709,000	11,200	<0.121	<0.655	<2.18	18.2	3.94 J
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.07	698,000	11,500	<0.121	<0.655	<2.18	18.9	<3.02
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.07	766,000	11,700	<0.121	<0.655	<2.18	19	<3.02
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.07	722,000	11,300	<0.121	<0.655	<2.18	17.8	<3.02
General Vicinity																
Pre-Construction Baseline Results																
LVWPS-MW102A	10/21/2022	N	BL02	NA	Downgradient	30	UMCf	47.0 - 66.6	<0.07	1,250,000	10,600	<0.121	<0.655	<2.18	27.5	<3.02
LVWPS-MW102B	10/21/2022	N	BL02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<7	8,060,000	10,400	<12.1	<65.5	<2.18	<0.664	<3.02
LVWPS-MW107A	10/24/2022	N	BL02	NA	Downgradient	50	Alluvium	24.8 - 34.5	<0.07	670,000	13,800	<0.121	<0.655	<2.18	20.8	<3.02
LVWPS-MW107B	10/21/2022	N	BL02	NA	Downgradient	50	UMCf	46.0 - 65.8	<0.07	736,000	7,290	<0.121	<0.655	<2.18	<0.664	<3.02
LVWPS-MW107C	10/24/2022	N	BL02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<7	9,210,000	7,650	<12.1	<65.5	<2.18	<0.664	<3.02
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	----	----	----	----	----	----	----	----
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	<0.07	703,000	11,500	<0.121	<0.655	<2.18	15.4	<3.02
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	----	----	----	----	----	----	----	----
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	<0.07	665,000	12,700	<0.121	<0.655	<2.18	11	<3.02
Post-Construction Performance Monitoring Results																
LVWPS-MW102A	5/30/2023	N	PM01	NA	Downgradient	30	UMCf	47.0 - 66.6	<0.07	1,240,000	10,900	<0.121	<0.655	<2.18	27.2	<3.02
LVWPS-MW102A	8/23/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	<0.07	1,280,000	12,000	0.146 J	<0.655	<2.18	29.3	<3.02
LVWPS-MW102A	10/11/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	NA	Downgradient	30	UMCf	47.0 - 66.6	<0.07	1,160,000	11,700	<0.121	<0.655	<2.18	27	<3.02
LVWPS-MW102A	2/27/2024	N	PM04	NA	Downgradient	30	UMCf	47.0 - 66.6	<0.07	1,360,000	12,200	<0.121	<0.655	<2.18	27.6	5.42 J
LVWPS-MW102A	5/23/2024	N	PM05	NA	Downgradient	30	UMCf	47.0 - 66.6	<0.07	1,040,000	13,200	<0.121	<0.655	<2.18	27.9	<3.02
LVWPS-MW102B	5/26/2023	N	PM01	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<3.5	8,030,000	10,900	<6.05	<32.8	<2.18	<0.664	<3.02
LVWPS-MW102B	8/23/2023	N	PM02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<0.7	7,900,000	11,500	<1.21	<6.55	<21.8	<6.64	<30.2
LVWPS-MW102B	12/1/2023	N	PM03	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<0.7	7,310,000	11,200	<1.21	<6.55	<21.8	<6.64	<30.2
LVWPS-MW102B	2/27/2024	N	PM04	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<0.7	7,580,000	11,700	<1.21	<6.55	<2.18	<0.664	<3.02
LVWPS-MW102B	5/23/2024	N	PM05	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	0.083 J	7,480,000	11,700	<1.21	<0.655	<2.18	0.76 J	<3.02
LVWPS-MW107A	5/23/2023	N	PM01	NA	Downgradient	50	Alluvium	24.8 - 34.5	<0.07	689,000	13,200	0.258 J	<0.655	<2.18	7.23	<3.02
LVWPS-MW107A	8/24/2023	N	PM02	NA	Downgradient	50	Alluvium	24.8 - 34.5	<0.07	683,000	13,100	0.251 J	<0.655	<2.18	8.43	<3.02
LVWPS-MW107A	11/30/2023	N	PM03	NA	Downgradient	50	Alluvium	24.8 - 34.5	<0.07	662,000	13,100	0.221 J	<0.655	<2.18	6.94	<3.02
LVWPS-MW107A	2/22/2024	N	PM04	NA	Downgradient	50	Alluvium	24.8 - 34.5	<0.07	671,000	12,300	0.204 J	<0.655	<2.18	7.83	<3.02
LVWPS-MW107A	5/28/2024	N	PM05	NA	Downgradient	50	Alluvium	24.8 - 34.5	<0.07	710,000	13,000	0.169 J	<0.655	<2.18	5.99	<3.02
LVWPS-MW107B	5/23/2023	N	PM01	NA	Downgradient	50	UMCf	46.0 - 65.8	<0.07	746,000	7,710	<0.121	<0.655	<2.18	<0.664	<3.02
LVWPS-MW107B	8/24/2023	N	PM02	NA	Downgradient	50	UMCf	46.0 - 65.8	<0.07	308,000	4,310	<0.121	<0.655	<2.18	5.72	<3.02
LVWPS-MW107B	12/1/2023	N	PM03	NA	Downgradient	50	UMCf	46.0 - 65.8	<0.07	171,000	3,130	<0.121	<0.655	<2.18	6.49	<3.02

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Silver	Sodium	Strontium	Thallium	Tin	Titanium	Vanadium	Zinc
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107B	2/23/2024	N	PM04	NA	Downgradient	50	UMCf	46.0 - 65.8	<0.07	752,000	8,190	<0.121	<0.655	<2.18	<0.664	<3.02
LVWPS-MW107B	5/24/2024	N	PM05	NA	Downgradient	50	UMCf	46.0 - 65.8	<0.07	795,000	8,150	<0.121	<0.655	<2.18	<0.664	<3.02
LVWPS-MW107C	5/23/2023	N	PM01	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.07	8,170,000	8,290	<2.42	<0.655	<2.18	<0.664	<3.02
LVWPS-MW107C	8/24/2023	N	PM02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.7	8,350,000	9,480	<1.21	<6.55	<21.8	<6.64	<30.2
LVWPS-MW107C	12/1/2023	N	PM03	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.7	8,100,000	8,280	<1.21	<6.55	<21.8	<6.64	<30.2
LVWPS-MW107C	2/23/2024	N	PM04	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<1.4	7,830,000	8,540	<2.42	<13.1	<43.6	<13.3	<60.4
LVWPS-MW107C	5/28/2024	N	PM05	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	0.144 J	779,000	11,700	<0.121	<0.655	<2.18	18.8	<3.02
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	<0.07	667,000	10,900	0.269 J	<0.655	<2.18	15.9	4.24 J
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	<0.07	656,000	10,400	0.284 J	<0.655	<2.18	15.5	11.1 J
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	<0.07	726,000	10,900	0.272 J	<0.655	<2.18	16.4	<3.02
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	<0.07	719,000	12,200	0.295 J	<0.655	<2.18	16.4	<3.02
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	0.0858 J	663,000	11,600	0.3 J	<0.655	<2.18	15.1	<3.02
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	<0.07	645,000	11,600	0.215 J	<0.655	<2.18	16.4	7.14 J
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	<0.07	603,000	12,200	0.202 J	<0.655	<2.18	17.7	<3.02
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	<0.07	667,000	13,000	0.202 J	<0.655	<2.18	18	<3.02
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	<0.07	553,000	9,760	0.163 J	<0.655	<2.18	16.2	<3.02
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	<0.07	698,000	12,900	0.185 J	<0.655	4.83 J	19.8	<3.02

Notes:
1. Distances from the discontinuous or continuous walls are shown as negative values for upgradient monitoring wells, as
bgs - below ground surface
J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be
< The analyte was analyzed for, but was not detected above the level of the reported sample
mg/L - milligram per liter
mS/cm - milliSiemens per centimeter
mV - millivolts
nmol - nanomol
SU - standard units
N - normal field sample
µg/L - micrograms per liter
UMCf - Upper Muddy Creek formation
FD - field duplicate
FS - field split

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
Test Area 1A																
Pre-Construction Baseline Results																
ZTS-MW143	10/18/2022	N	BL02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	4.62	4.28	0 U	218.2	7.08	0 U	24.8	7.2
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	6.3	3.9	----	134.4	7.04	----	26.7	-3.7
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	----	----	----	----
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	6.208	4.32	0 U	106.3	7.16	0 U	25.7	3.5
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	----	----	----	----
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	6.736	1.97	----	117.1	7.17	----	31.2	7.5
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	3.123	1.61	0 U	-17.9	7.4	0 U	19.2	22.1
ZTS-MW125	10/24/2022	FD	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	----	----	----	----
ZTS-MW144	10/18/2022	N	BL02	1A	Downgradient	35	Alluvium	24.0 - 34.0	4.384	2.79	0 U	146.8	7.05	0 U	22.9	8.2
Post-Construction Performance Monitoring Results																
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	7.019	3.68	0 U	124.3	7.02	0 U	24.1	7.5
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	6.855	3.61	0 U	329.7	6.97	0 U	26.7	11.2
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	7.23	1.79	0 U	184.1	6.92	0 U	23.5	6.2
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	7.264	3.11	0 U	191.2	6.95	0 U	23.2	-99 E
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	6.272	5.02	0 U	396.9	7.19	0 U	26.1	174.6
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	6.982	4.37	0 U	145.3	7.1	0 U	25.8	11.1
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	5.955	3.94	0 U	410.5	7.03	0 U	25.4	14.6
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	6.638	3.63	----	130.4	7.13	----	23.9	28.4
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	6.087	2.93	0 U	155	7.03	0 U	23.9	45.2
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	5.759	5.21	0 U	439.1	7.28	0 U	26.1	9.1
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	5.464	0.59	0 U	66.5	7.46	0.1	30.5	7.2
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	3.785	0.43	0 U	-122.7	7.34	0 U	25.1	7.3
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	3.982	0.31	0 U	-158.3	7.44	0 U	23.1	3.4
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	3.624	0.26	0 U	-146.3	7.36	0 U	23.8	4.8
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	4.081	0.37	0 U	-151.5	7.39	0 U	29.4	3.1
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	6.979	4.71	0 U	134.8	7.11	0 U	24.1	57.2
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	5.612	3.55	0 U	406.7	7.01	0 U	24.8	153
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	6.179	2.77	0 U	43.8	7.04	0 U	23.6	79.4
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	6.072	3.06	0 U	158.8	7	0 U	23.6	13
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	5.947	3.84	0 U	214.4	7.08	0 U	24.6	18.2
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	7.291	3.76	0 U	184.5	7.17	0 U	25.4	5.4
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	5.529	3.67	0 U	135.5	7.15	0 U	25.9	14.8
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	6.299	3.08	0 U	75.2	7.06	0 U	23.5	1.6
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	5.952	4.93	0 U	160.3	7.09	0 U	23.3	2.7
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	6.081	4.08	0 U	212.6	7.12	0 U	25.4	2.5
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	4.896	0.17	6.5	-386.4	8.09	0 U	25.7	73.9
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	5.112	0.56	2	-260.3	8.08	0 U	24.8	91.7
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	6.322	0.03	3.5	-277.9	8.17	0 U	23.2	9.1
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	6.634	0.03	0 U	-320.6	8.06	0 U	24.5	15.7
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	5.926	0	1.5	-283.9	8.35	0 U	26	293.9
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5.789	0.19	6.5	-346.5	8.4	0 U	26.3	110.5
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5.508	0.34	4	-303.1	7.88	0 U	25.8	75.9

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	7.218	-0.03	3.5	-306.6	7.86	0 U	23.3	24.5
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	6.188	0.11	0.5	-283.3	8	0 U	22.1	26.5
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	6.232	0.1	0.5	-249.8	8.29	0 U	26.8	261.3
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	6.482	0.46	0.5	-241.1	8.27	0 U	28.2	77.7
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	----	----	----	----	----	----	----
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	6.159	0.35	0 U	-240.7	8.22	0 U	26.9	74.4
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	----	----	----	----	----	----	----
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	6.568	1.38	0 U	-190.2	8.17	0 U	23.2	21.7
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	----	----	----	----	----	----	----
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	6548	0.39	0 U	-258.2	8.55	0 U	22.7	24.2
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	----	----	----	----	----	----	----
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5.852	0.18	0 U	-226.2	8.33	0 U	26	88
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	----	----	----	----	----	----	----
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	8.659	0.73	0 U	11.4	6.87	0 U	24	16.7
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	5.561	6.12	0 U	79.3	7.47	0 U	25.9	75.6
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	7.456	0.07	0.5	20	7.26	0 U	24	64.2
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	6.505	0.3	0 U	5.2	7.22	0 U	22.3	3.9
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	6.283	0.13	0.2	146.3	7.39	0 U	25.3	19.9
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	5.914	0.57	1	-37.6	7.07	0 U	24.3	169.9
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	----	----	----	----	----	----	----	----
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	5.914	1	0 U	29.5	7.39	0 U	24.8	8.1
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	----	----	----	----	----	----	----	----
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	7.756	0.17	1	59.6	7.34	0 U	23.9	13.8
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	----	----	----	----	----	----	----	----
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	6.631	0.33	0 U	82.5	7.33	0 U	22.6	4.1
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	----	----	----	----	----	----	----	----
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	6.37	0.19	0 U	89.5	7.46	0 U	24.7	14.4
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	----	----	----	----	----	----	----	----
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	4.892	0.39	1.5	-205.4	7.55	0 U	33	162.9
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	4.194	3.67	0 U	-113.3	7.55	0 U	27.3	1.8
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	4.851	0.12	0 U	-187.4	7.44	0.6	23	2.6
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	4.619	0.24	0 U	-208.3	7.34	0 U	23.8	26.5
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	4.621	0.1	0 U	-152.5	7.5	0 U	26.4	13
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	8.746	0.25	0 U	5.9	7.5	0 U	23.7	-0.6
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	5.684	0.52	0 U	-9.3	7.42	0 U	25.2	4.1
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	6.715	0.16	0 U	138.2	7.34	0 U	23.7	3.9
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	6.265	0.35	0 U	-15.9	7.3	0 U	23.4	3.1
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	6.326	0.17	0 U	133.5	7.36	0 U	24.1	1.9
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	8.979	0.75	0 U	66	6.5	0 U	24.8	36.6
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	5.78	0.5	0 U	36	7.39	0 U	24.6	4
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	7.75	0.16	0.5	44.6	7.2	0 U	24.1	13.8
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	6.509	0.36	0 U	35.2	7.16	0 U	22	3
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	6.543	0.19	0 U	130.1	7.22	0 U	24.8	7
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	9.444	0.79	0 U	93.5	6.46	0 U	25.6	10.7

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	5.956	0.45	0 U	89.5	7.43	0 U	26	10.9
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	7.213	0.16	0 U	-24.2	7.42	0 U	22.9	2
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	6.709	0.32	0 U	92.7	7.27	0 U	22.9	2.4
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	6.35	0.19	0 U	23.2	7.46	0 U	25.1	5.2
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	9.658	0.8	0 U	102.3	6.86	0 U	26.1	8.6
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	6.662	0.35	0 U	310.8	7.22	0 U	27.8	58.4
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	6.479	0.31	0 U	127	7.22	0 U	22	3.3
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	6.807	3	0 U	98.6	7.31	0 U	23.7	3
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	6.549	0.14	0 U	40.8	7.34	0 U	26.4	6.3
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	8.418	4.42	0 U	93.5	7.28	0 U	24.8	52.6
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	5.539	4.01	0 U	89.7	7.12	0 U	26.1	15.2
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	6.467	2	0 U	157.3	7.04	0 U	23.5	6.9
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	6.171	2.2	0 U	104.9	6.91	0 U	22.7	6.1
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	6.083	4.69	0 U	160.9	7.08	0 U	24.9	8.7
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	9.078	1.38	0 U	78.6	7.38	0 U	24.7	-1
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	5.716	2.93	0 U	41.7	7.31	0 U	25.1	43.6
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	6.549	0.21	0 U	105.7	7.3	0 U	23.5	10.2
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	6.391	0.49	0 U	75.3	7.27	0 U	23.6	5.6
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	6.312	0.36	0 U	32.3	7.39	0 U	25.1	12.1
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	7.49	0.42	0 U	107.3	7.44	0 U	26.1	35.5
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	6.138	0.45	0 U	186.7	7.09	0 U	26.7	39.7
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	8.139	0.02	0 U	465.3	7.28	0 U	23.1	3.2
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	6.21	0.31	0 U	133.6	7.28	0 U	23.7	4.2
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	6.281	0.52	0 U	494.8	7.22	0 U	25.4	4.4
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	4.995	0.85	0 U	49.4	7.71	0 U	33.7	4.5
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	5.288	0.84	0 U	166.1	7.17	0 U	26.3	11.4
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	7.407	0.64	0 U	367.9	7.21	0 U	23	3.6
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	5.573	0.98	0 U	117.5	7.21	0 U	23.6	5.7
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	5.614	1.86	0 U	439.3	7.22	0 U	24.8	7.1
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	6.523	0.57	0 U	170.6	7.43	0 U	24.8	2.6
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	6.404	0.38	0 U	409.3	7.07	0 U	25.2	20.4
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	6.615	1.32	0 U	155.8	7.07	0 U	24.1	2.4
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	6.243	1	0 U	141.9	7.12	0 U	24.6	3.3
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	6.257	1.13	0 U	456.8	7.12	0 U	26.4	6.5
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	3.943	1.02	0 U	189.1	7.33	0 U	22.7	17.9
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	6.394	0.41	0 U	180.3	7.02	0 U	24.7	11
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	----	----	----	----	----	----	----	----
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	6878	0	0 U	63.9	7.18	0 U	24.3	143.7
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	----	----	----	----	----	----	----	----
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	6.231	1.04	0 U	-2.9	7.17	0 U	24	112.4
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	----	----	----	----	----	----	----	----
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	4.748	0.82	0 U	118.5	7.15	0 U	25.3	41.4
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	----	----	----	----	----	----	----	----
Between Test Area 1A and Test Area 1B																

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
Pre-Construction Baseline Results																
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	4.985	0.47	0 U	-1.5	7.38	0 U	23.3	9.5
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	3.424	2.24	0 U	36	7.26	0 U	18.1	5
Post-Construction Performance Monitoring Results																
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1.198	6.32	0 U	142.7	8.04	0 U	29.2	2.9
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	4.453	0.41	0 U	-91	7.32	0 U	24.8	2.7
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	5.144	0.12	0 U	-138.7	7.36	0 U	22.9	3
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	4.574	8056	0 U	240.4	7.48	0 U	23.3	17
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	3.918	6.46	0 U	275.7	7.64	0 U	28.1	0.9
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	6.142	1.47	0 U	-146.5	7.49	0 U	24.8	5.3
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	6.447	0.81	0 U	-160.9	7.54	0.2	28.6	2.4
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	6.64	0.26	0 U	-176	7.5	0.4	23.4	3.5
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	6.136	0.98	0 U	-170.4	7.47	0.1	21.9	3.3
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	6.806	0.34	0 U	-109.1	7.5	0.1	25.5	2.6
Test Area 1B																
Pre-Construction Baseline Results																
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	4.784	4.99	0 U	142.2	7.16	0 U	23.3	34.8
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	7.382	1.91	----	111.1	7.25	----	26.9	5
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	7.111	3.65	0 U	102.8	7.19	0 U	24.8	14.2
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	7.583	2.86	----	124	7.01	----	28	6.3
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	4.654	2.58	0 U	51.2	6.95	0 U	22.4	12.9
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	6.419	8.1	0 U	107.4	7.37	0 U	23.1	20.8
Post-Construction Performance Monitoring Results																
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	8.526	1.07	0 U	81.9	7.1	0 U	26.8	7.4
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	6.851	3.09	0 U	209.7	7.01	0 U	28.1	6.6
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	6.567	4.2	0 U	179	7.07	0 U	22.6	6.5
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	6.348	5.03	0 U	21.2	7.16	0 U	23.2	25
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	6.673	4.28	0 U	210.6	7.13	0 U	26.5	6.4
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	8.193	1.5	0 U	128.8	7.13	0 U	27.7	14.1
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	6.176	2.93	0 U	237.9	7	0 U	26.1	9
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	0.075	7.65	0 U	92.8	7.19	0 U	22.6	21
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	6.23	5.45	0 U	99.7	7.14	0 U	22.5	3.7
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	6.625	2.7	0 U	186.2	7.07	0 U	29.2	4.7
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	7.884	4.31	0 U	141	7.13	0 U	23.8	13.8
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	7.334	4.76	0 U	421.1	7.02	0 U	27.2	7.8
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	6.707	3.25	0 U	83.1	7.04	0 U	23.6	8.3
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	6.325	5.35	0 U	110.5	7.09	0 U	22.9	6.8
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	6.622	6.05	0 U	179.9	7.07	0 U	25.8	5.7
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	8.117	2.89	0 U	85.2	7.29	0 U	27	9.8
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	7.244	3.59	0 U	351.7	7	0 U	26.5	10.9
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	6.582	3.85	0 U	69.9	7.06	0 U	23.3	27
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	6.304	4.74	0 U	126.5	7.11	0 U	23.4	18.4
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	6.629	4.27	0 U	217.4	7.02	0 U	25.2	31.8

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	6.764	1.22	0 U	77.7	7.47	0 U	26.7	20.5
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	5.938	0.91	0 U	375.6	7.12	0 U	24.6	11.3
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	5.581	1.09	0 U	64	7.2	0 U	23	13.2
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	5.406	1.77	0 U	106.3	7.25	0.2	23.1	7.2
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	5.451	1.11	0 U	201	7.2	0 U	24.4	6.7
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	7.856	0.25	0.5	-226.4	8.43	0 U	32.1	13.1
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	5.824	0.33	1	-243.8	8.12	0 U	24.9	44.3
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	6.741	1.15	0 U	-195.2	9.03	0 U	23.1	4.8
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	6779	0.36	0 U	-281.3	9.27	0 U	21.5	31
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	6.419	0.01	1.5	-235.8	9.19	0.2	26.4	262.6
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	5.916	1.4	1.5	-163.5	7.28	0 U	25.5	255
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	6.72	0.48	0 U	-180	8.06	0.5	24.8	33.1
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	7163	0.1	0 U	-210.1	8.14	0 U	23.4	28.9
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	6.709	2.26	0 U	-67.7	8.09	0 U	24.7	33.9
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	11.208	0.39	0 U	42.3	8.67	0 U	25.4	51.6
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	6.683	0.05	1.5	-234.7	9.24	0 U	27.4	74.7
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	7.036	0.3	1	-282.5	9.27	0.4	27.7	16.9
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	6804	0	0 U	-435	9.21	0 U	22.6	2.5
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	6.241	0.98	0 U	-293.6	9.35	0 U	22.8	6.8
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	10.191	0.64	0 U	-273.1	9.45	0.6	25.1	30
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	6.449	0.23	0.5	33.3	8.17	0 U	25.1	8.4
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	6.669	1.11	0 U	134.9	8.33	0 U	24.5	70.1
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	6997	0.1	0 U	63.3	8.48	0 U	23.7	7.8
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	6.22	1.06	0 U	-28.3	8.51	0 U	22.5	2.3
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	9.872	0.09	0 U	67.7	8.19	0 U	25.5	19.4
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	6.918	0.23	0.2	38.5	8.26	0 U	24	7.7
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	----	----	----	----	----	----	----	----
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	6.884	0.41	0 U	34.5	7.67	0 U	24.8	3.4
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	----	----	----	----	----	----	----	----
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	6882	0.2	0 U	187	8.22	0 U	23.7	7.8
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	----	----	----	----	----	----	----	----
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	6.016	1.18	0 U	-32.5	8.1	0 U	22	3.2
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	----	----	----	----	----	----	----	----
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	11.22	0.13	0 U	78.5	8.48	0 U	24.7	11.7
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	----	----	----	----	----	----	----	----
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	4.497	0.29	0 U	-58.2	7.29	0 U	23.6	14.5
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	7.005	3.37	0 U	-82.1	7.52	0.2	32.4	22.7
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	5270	2.8	0 U	-143.7	7.33	0.3	21.8	5.7
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	5.356	1.14	0 U	-42.5	7.46	0 U	23.7	14.5
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	9.601	0.3	0 U	84.7	7.45	0 U	24.7	41
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	6.227	0.25	0.2	21.7	8.34	0 U	24	8.1
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	6.842	0.39	0 U	-32.3	8.25	0 U	25.3	8.2
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	6942	0.5	0 U	165.8	8.35	0 U	23.9	5.7
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	6.185	1.18	0 U	-52	8.18	0 U	22.9	3.5

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	10.176	2.7	0 U	45.2	8.43	0 U	24.8	10
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	6.583	0.18	0 U	51.1	8.14	0 U	25.9	11.2
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	6.812	0.44	0 U	99	7.97	0 U	25.4	14.8
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	5.681	0.56	----	142.4	8.21	----	24.9	285
ZTS-MW168	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	----	----	----	----
ZTS-MW168	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	6737	0.1	0 U	152.2	8.11	0 U	23.4	3.8
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	6.202	1.18	0 U	63.7	8.23	0 U	22.2	6.9
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	9.678	0.09	0 U	96.6	8.27	0 U	24.7	24.3
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	7.138	0.35	0.2	93.5	7.6	0 U	23.5	55.2
ZTS-MW174	5/26/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	6.894	0.36	0 U	16.1	7.75	0 U	26.2	17.9
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	5.686	0.27	----	150.1	8.24	----	25.4	192.7
ZTS-MW174	10/11/2023	FS	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	10/11/2023	FD	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	----	----	----	----
ZTS-MW174	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	19.8 - 29.5	6691	0	0 U	145.3	8.19	0 U	23.5	7.4
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	6.278	1.06	0 U	-16.8	8.16	0 U	23.4	7.9
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	8.6	0.25	0 U	115.7	8.36	0 U	24.9	41.7
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	6.585	0.39	0 U	57.8	7.76	0 U	26.3	66.5
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	7.059	0.39	0 U	61.8	7.98	0 U	27	43
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	6729	0.1	0 U	147.1	8.22	0 U	24.4	15.1
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	6.335	1.12	0 U	8.3	8.35	0 U	23.4	16.1
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	11.476	0.06	0 U	2.7	8.48	0 U	25.6	12.5
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	6.314	2.63	0.2	104.1	7.1	0 U	23.8	7
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	----	----	----	----	----	----	----	----
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	7.011	3.43	0 U	213.3	6.88	0 U	24.7	7
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	----	----	----	----	----	----	----	----
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	7125	2.1	0 U	195.7	7.11	0 U	23.8	5.7
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	----	----	----	----	----	----	----	----
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	6.561	4.3	0 U	70.2	7.04	0 U	23.7	7.3
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	----	----	----	----	----	----	----	----
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	8.602	5.26	0 U	163.5	7.02	0 U	24.7	3.8
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	----	----	----	----	----	----	----	----
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	6.532	2.2	0.2	87.6	7.59	0 U	25.3	8.9
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	7.1	0.41	0 U	76.5	7.6	0 U	26.9	6.4
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	6987	0.2	0 U	52.7	7.94	0 U	24.1	5.7
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	6.183	1.14	0 U	25	8.14	0 U	22.4	5
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	9.367	5.93	0 U	120.8	7.95	0 U	24.9	210.6
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	5.253	1.18	0 U	171.3	7.38	0 U	23.4	53
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	7.034	0.39	0 U	144.6	7.45	0 U	25.2	41.7
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	6911	0.5	0 U	179.8	7.77	0 U	23.9	66.2
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	6.149	0.26	0 U	41	7.73	0 U	24.2	9.1
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	4.841	0.23	0 U	80.5	7.89	0 U	24.6	18.6
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	4.807	1.27	0 U	265.1	7.38	0 U	22.3	8.6

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	7.196	0.43	0 U	120.3	7.32	0 U	26.3	5.9
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	6.791	1.55	0 U	146.5	7.45	0 U	24.3	1.4
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	6.239	0.34	0 U	134.1	7.55	0 U	24.1	2.6
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	9.701	2.9	0 U	103.6	7.52	0 U	25.6	16.9
Test Area 2A																
Pre-Construction Baseline Results																
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	4.917	5.37	0 U	106.5	7.07	0 U	23.4	35.6
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	7.639	3.07	----	105.5	7.06	----	27.1	17
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	4.031	3.4	0 U	94.6	6.98	0 U	22.6	6.8
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	5.205	4.22	0 U	117.7	8.02	0 U	23.5	68.3
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	4.133	3.25	0 U	76.8	7.05	0 U	23.5	21.2
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	7.997	2.89	0 U	91.9	7.13	0 U	22.9	4.1
Post-Construction Performance Monitoring Results																
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	7.054	4.96	0 U	76.1	7.01	0 U	26.7	32.7
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	6.633	4.84	0 U	299.7	7.09	0 U	27.2	18.5
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	6.965	4.99	0 U	135.7	6.95	0 U	23.1	11.2
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	6837	5.52	0 U	122.3	7.22	0 U	23.2	55.4
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	7.035	5.44	0 U	141.1	7.09	0 U	24.6	22
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6.733	3.67	0 U	95.4	7.01	0 U	24.1	5.9
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	----	----	----	----
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6.614	3.19	0 U	367.4	7.08	0 U	26.6	8.6
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	----	----	----	----
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	7.272	3.3	0 U	90.7	6.92	0 U	24	2
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	----	----	----	----
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	7091	3.71	0 U	118.4	7.18	0 U	23.7	3.8
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	----	----	----	----
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	7.138	4.71	0 U	192.2	6.98	0 U	23.2	6.2
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	----	----	----	----
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	6.859	4.29	0 U	75	6.99	0 U	25.3	33
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	6.398	4.38	0 U	365.5	7.01	0 U	24.9	23.7
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	7.017	3.31	0 U	132.7	7.11	0 U	24.2	14.1
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	6.555	4.7	0 U	71.5	7.03	0 U	23.8	17.3
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	6.877	4.72	0 U	114.4	7.12	0 U	25.4	22.6
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	7.466	4.85	0.5	123.9	7.1	0 U	25.5	63.8
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	6.539	4.14	0 U	72.8	7.14	0 U	28	70.5
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	6.832	3.6	0 U	76.1	7.11	0 U	23.3	23.7
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	6.47	6.18	0 U	76.9	7.03	0 U	24.1	17.9
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	6.971	4.31	0 U	90.9	7.1	0 U	26.6	162.9
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	7.119	4.56	0.5	101.5	7.19	0 U	25.9	20
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	6.112	4.69	0 U	54.1	7.23	0 U	27.4	7.7
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	4.958	1.26	0 U	100.8	7.33	0 U	22.9	8.1
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	4.899	2.65	0 U	64.4	7.2	0 U	22.7	13.1
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	6.474	4.13	0 U	100.7	7.2	0 U	26.4	36.6
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	6.886	4.71	0 U	148.3	7.58	0 U	26.4	22.7

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Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	6.556	4.38	0 U	139.7	7.2	0 U	24.2	35.7
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	7.121	4.38	0 U	165.2	7.05	0 U	24.2	23.8
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	6880	4.9	0 U	82.1	7.2	0 U	21.4	195
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	7.09	4.55	0 U	158.8	7.02	0 U	23.3	10.3
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	6.105	1.63	0 U	-246	8.47	0 U	25	70.1
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	7.178	3.98	0 U	-100	8.44	0 U	27.3	54.1
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	6.73	1.58	0 U	-116.2	8.04	0 U	23.1	8.3
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	6543	1.21	0 U	-8.7	7.4	0 U	22.8	63.8
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	6.8	0.84	0 U	-37.7	7.91	0 U	23.3	29.5
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	5.918	3.42	0 U	73.2	7.16	0 U	23.1	346.9
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	6.624	3.67	0 U	-81.9	7.29	0 U	25.1	34.3
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	7.055	3.29	0 U	139.2	7.02	0 U	23.9	16.7
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	6586	4.34	0 U	96.2	7.13	0 U	23.4	8.1
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	7.148	3.25	0 U	129.2	7.08	0 U	24.9	14.7
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	7.03	4.93	0 U	108.5	7.18	0 U	26.1	18.9
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	6.578	5.09	0 U	386.4	7.02	0 U	25.1	10.9
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	7.104	5.39	0 U	180	7.08	0 U	24.5	36.5
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	6553	6.05	0 U	92.4	7.2	0 U	22.7	30.5
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	7.077	6.17	0 U	150.6	7.13	0 U	24	13.7
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	7.002	1.14	0 U	36.4	7.12	0 U	25.8	25.3
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	6.712	2.64	0 U	335.1	6.99	0 U	26	13.6
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	6.829	2.75	0 U	234.8	6.98	0 U	22.6	6.9
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	6599	3.18	0 U	86.4	7.08	0 U	22.6	11.7
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	7.092	2.03	0 U	150.7	7.05	0 U	24	15.7
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	7.165	1.54	0 U	26.4	7.01	0 U	27.2	81.5
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	----	----	----	----	----	----	----	----
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	6.559	2.56	0 U	339.9	7.03	0 U	24.9	25.5
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	----	----	----	----	----	----	----	----
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	7.096	4.78	0 U	218.9	6.99	0 U	24.2	69.7
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	----	----	----	----	----	----	----	----
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	6918	4.6	0 U	136.3	7.19	0 U	23.5	47.4
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	----	----	----	----	----	----	----	----
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	6.991	2.24	0 U	112.8	7	0 U	25.2	9.6
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	----	----	----	----	----	----	----	----
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	6.503	0.85	0 U	19.5	6.98	0 U	26.5	19
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	6.047	1.27	0 U	428	7.01	0 U	24.5	4.3
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	5.285	0.69	----	149.3	7.36	----	24.4	10.1
ZTS-MW203	10/11/2023	FS	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	----	----	----	----
ZTS-MW203	11/30/2023	N	PM03	2A	Downgradient	5	UMCf	28.3 - 38.0	5.538	1.33	0 U	165.6	7.12	0 U	23.7	16.2
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	4646	1.23	0 U	94.6	7.42	0 U	23.4	35.4
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	6.432	1.85	0 U	188.4	6.98	0 U	23.9	51.7
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	6.727	3.82	0 U	71.3	6.97	0 U	24.6	22.1
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	6.483	4.64	0 U	367.3	7.01	0 U	24.4	11.8
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	7.008	5.14	0 U	209.4	7.02	0 U	23.8	10.4

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									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	6888	5.64	0 U	161	7.18	0 U	21.7	40.6
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	6.928	5.09	0 U	139.4	7.03	0 U	23.8	17.4
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	6.438	3.92	0 U	81.7	6.99	0 U	22.8	40.4
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	6.552	4	0 U	303.9	7.04	0 U	24.8	11.8
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	6.737	5.74	0 U	275.5	6.92	0 U	22.5	72.8
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	6893	5.73	0 U	134.1	7.23	0 U	22.6	55.8
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	6.94	5.53	0 U	145	7.05	0 U	24.2	19.1
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	6.666	4.65	0 U	91.2	7.07	0 U	24	2.4
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	6.159	3.03	0 U	336.5	7.12	0 U	24.1	2.5
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	6.75	4.54	0 U	252.7	7.02	0 U	23.1	2.9
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	7024	0.82	0 U	109.9	7.26	0 U	23.2	9
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	7.017	5.51	0 U	140.2	7.01	0 U	23.4	0.8
Test Area 2B																
Pre-Construction Baseline Results																
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	4.71	1.35	0 U	19.7	7.25	0 U	21.1	115.7
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	5.788	2.29	----	88.4	7.3	----	34.6	25
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	2.013	1.7	0 U	-116.3	7.43	0 U	21.1	8.3
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	----	----	----	----	----	----	----	----
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	3.823	4.84	0 U	136	7.18	0 U	24.6	8.4
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	4.194	1.41	0 U	18.2	7.31	0 U	24.4	98.2
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	3.095	1.23	0 U	-128.5	7.4	0 U	23	71.9
Post-Construction Performance Monitoring Results																
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	4.27	1.18	0 U	79.3	7.36	0 U	23	33
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	6.904	0.53	0 U	-17	7.28	0 U	26.9	31.2
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	7.645	1.69	0 U	6.6	7.18	0 U	23.4	48.2
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	7873	0.4	0 U	-14.3	7.37	0 U	21.8	17.2
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	8.061	0.33	0 U	-2.1	7.24	0 U	24.8	40.7
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	4.048	2.35	0.2	-129.2	7.49	0.1	30.4	2
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	5.283	0.88	0 U	-149.5	6.18	0 U	25.2	21.4
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	5.959	0.32	0 U	-168.5	7.39	0 U	22.6	5.3
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	5.362	0.42	0.5	-168.2	7.25	0.6	18.7	4.8
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	6.323	0.69	0 U	-170.6	7.38	0.04 U	30.9	26.4
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	8.134	4	0 U	112	7.27	0 U	30.1	28.7
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	6.522	4.13	0 U	175.1	6.1	0 U	28.1	26.8
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	6.205	2.13	0 U	-0.8	7.12	0 U	23.1	7
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	5.434	0.76	0 U	44	7.31	0 U	18.2	18.4
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	6.355	3.99	0 U	142.6	7.12	0 U	27.7	18.8
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	6.361	9.99	0 U	-42.4	7.72	0 U	26.8	55.2
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	5.124	1.55	0 U	53.7	70	0 U	25.3	34.2
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	6.544	2.53	0 U	-109.5	7.29	0 U	23.3	4
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	5.8	0.32	0 U	-47.2	6.96	0 U	21	38.5
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	6.461	0.44	0 U	-130.9	7.56	0 U	30.3	26.6
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	7.098	5.5	0 U	-224.7	8.46	0 U	26.3	104
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	----	----	----	----	----	----	----	----

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	0.058	8.08	0 U	-8.5	6.79	0 U	28.7	11
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	13.345	0.23	0 U	-271.7	7.55	0.2	18.9	4.9
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	6.067	0.13	3	-167.8	9.03	0 U	17.6	37.5
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	7.202	0.39	0 U	-148.6	9.22	0 U	33.9	65.8
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	6.689	1.43	0.2	-54.3	7.32	0 U	25.3	15.1
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	5.686	0.91	0 U	143.4	7.41	0 U	27.8	28.2
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	13.359	0.29	0 U	-126.2	7.3	0 U	22.9	13.3
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	5.727	0.35	0 U	23.7	7.09	0 U	20.8	22.2
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	6.627	0.31	0 U	190.8	7.18	0 U	25.4	1.8
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	8.368	0.44	0.2	-161.4	7.25	0 U	25.4	15.9
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	0.05	7.45	0 U	122.5	7.8	0 U	30.1	9.5
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	15.213	0.25	0 U	-85.4	7.24	0 U	23.3	18.5
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	6.555	0.38	0 U	-10.3	7.23	0 U	21.2	40.1
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	7.07	0.22	0 U	7	7.24	0 U	25.6	13.5
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	7.899	5.73	0 U	-48.6	7.26	0 U	29.4	16.7
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	6.159	0.94	0 U	85.9	7.29	0 U	24.6	26.5
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	15.341	0.18	0 U	-161	7.11	0.2	22.2	77.7
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	6.636	0.19	0 U	-33.6	7.18	0 U	19.9	8.1
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	7.484	0.41	0 U	42.5	7.41	0 U	32.6	14.9
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	5.178	2.32	0 U	-69.2	7.45	0 U	25.2	9.6
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	----	----	----	----	----	----	----	----
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	3.904	1.11	0 U	45.8	7.29	0 U	25.2	30.5
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	----	----	----	----	----	----	----	----
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	4.53	0.25	0 U	-80.8	7.24	0 U	21.8	19.8
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	----	----	----	----	----	----	----	----
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	4.677	0.61	0 U	69	7.24	0 U	20.4	23.9
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	----	----	----	----	----	----	----	----
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	5.348	0.5	0 U	172.1	7.21	0 U	25.1	16.7
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	----	----	----	----	----	----	----	----
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	7.334	0.48	0 U	-95.1	7.34	0 U	23.1	20.7
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	7.108	0.78	0 U	108.9	6.11	0 U	25.7	94.8
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	7.452	0.22	0 U	109.5	7.21	0 U	22.2	62
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	7.105	0.18	0 U	-6.6	7.21	0 U	22.2	37.5
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	7.458	0.44	0 U	43.4	7.21	0 U	26	46.2
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	3.703	1.01	0.5	-139	7.58	0 U	24	13.7
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	----	----	----	----	----	----	----	----
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	0.034	7.83	0 U	14.3	7.49	0 U	26.5	23.2
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	----	----	----	----	----	----	----	----
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	3.95	0.19	0 U	-159.8	7.36	0 U	23.2	24.2
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	----	----	----	----	----	----	----	----
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	3.848	0.19	0 U	-188.5	7.34	0.2	21.2	83.2
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	----	----	----	----	----	----	----	----
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	4.301	0.38	0 U	-188.5	7.34	0 U	29.8	47.9
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	----	----	----	----	----	----	----	----

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	6.576	4.63	0 U	103.8	7.33	0 U	23.6	50.4
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	5.642	2.93	0 U	267.9	7.38	0 U	29.8	41.8
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	12.933	1.61	0 U	-3	7.17	0 U	23.5	42.3
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	5.378	1.72	0 U	77.2	7.23	0 U	22.6	42.2
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	6.033	2.27	0 U	181.5	7.2	0 U	24.8	305
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	8.446	0.79	0 U	90.4	7.38	0 U	24.9	71.5
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	6.601	0.83	0 U	247.1	7.37	0 U	25.8	51.4
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	7.22	0.28	0 U	2	7.21	0 U	22.1	40.5
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	7.171	0.19	0 U	66.4	7.2	0 U	22.6	16.7
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	7.676	0.29	0 U	189.1	7.18	0 U	23.9	30.6
Test Area 2C																
Pre-Construction Baseline Results																
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	4.139	4.97	0 U	112.3	7.08	0 U	23.6	82.3
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	7.085	3.05	----	115.6	7.03	----	26	33.3
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6.421	4.57	0 U	164.2	7.04	0 U	23.9	15.2
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	----	----	----	----	----	----	----	----
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	8.367	3.42	0 U	98.6	7.1	0 U	24.2	38.6
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	4.16	4.54	0 U	111.6	7.06	0 U	24.3	106.7
Post-Construction Performance Monitoring Results																
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	3.4	5.48	0 U	198.2	6.91	0 U	21.5	59.8
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	----	----	----	----	----	----	----	----
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	6.113	5.57	0 U	88.8	7.14	0 U	24.7	22.5
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	----	----	----	----	----	----	----	----
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	7.244	4.78	0 U	184	7.13	0 U	24.1	19.4
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	----	----	----	----	----	----	----	----
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	6.57	6.38	0 U	93.3	7.03	0 U	23.2	11.2
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	----	----	----	----	----	----	----	----
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	6.785	5.23	0 U	103.1	7.36	0 U	24	427.1
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	----	----	----	----	----	----	----	----
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	5.041	5.51	0 U	171.1	6.45	0 U	24.5	22.1
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6.166	5.36	0 U	52.8	7.11	0 U	25.1	11
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	7.193	4.99	0 U	199.6	7.09	0 U	24	6.7
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6.521	6.6	0 U	99.9	7.07	0 U	23.3	7.5
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6.872	5.24	0 U	87.6	7.36	0 U	24.8	21.9
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	4.69	4.79	0 U	171.3	6.9	0 U	22.7	127.1
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	7.204	4.54	0 U	127.1	7.13	0 U	25.1	107.3
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	7.776	3.65	0 U	110.8	7.04	0 U	24.1	20.6
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6.172	6.02	0 U	69.9	7.03	0 U	23	23.2
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6.855	5.17	0 U	120.8	7.32	0 U	23.8	37.7
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6.728	5.46	0 U	85.9	7.28	0 U	24.5	19.3
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6.991	5.64	0 U	143.6	7.12	0 U	24	17.5
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	7.57	4.92	0 U	95	7.06	0 U	24	72.3
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0.054	8.95	0 U	253.4	7.77	0 U	21.2	93
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6.735	5.78	0 U	455.9	7.32	0 U	24.1	25.6

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Table 2
Groundwater Anaytical Results
Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	2.65	1.3	0 U	-14.8	7.24	0 U	23.3	56
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	4.587	1.49	0 U	34.3	7.22	0 U	27.4	11
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	3.951	0.99	0 U	-10.3	7.39	0 U	21.8	16.8
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	3.976	1.98	0 U	42.3	7.31	0 U	23.7	17.9
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	3.998	1.06	0 U	10	7.6	0 U	28.9	29.2
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	5.733	2.29	0 U	103.9	7.11	0 U	24.8	145.5
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	6.96	2.36	0 U	12.1	7.24	0 U	24.4	42.7
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	7.293	1.56	----	459.3	7.2	----	23.5	23.4
ZTS-MW182	11/28/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	8.143	1.62	0 U	411.7	7.18	0 U	22.6	13.1
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	6.936	2.36	0.5	19.3	7.1	0 U	23.9	116.7
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	6.856	3.28	0 U	507.9	7.06	0 U	23.4	43.5
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	6.083	2.17	0 U	154.5	6.98	0 U	27.9	41.1
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	7.209	4.1	0 U	111.9	7.17	0 U	25.3	34
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	8.325	2.47	0 U	500.7	7.13	0 U	23.4	13.2
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	0.084	8.41	0.5	160.9	7.23	0 U	21.8	16.2
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	6.879	3.72	0 U	518.2	7.09	0 U	24.3	13.4
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	5.845	4.41	0 U	170.6	7.08	0 U	25.2	31.6
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	6.9	3.31	0 U	136.8	7.08	0 U	24.2	29.8
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	8.812	3.69	0 U	484.2	7.08	0 U	22.5	6.5
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	6.784	3.18	0 U	165.5	7.15	0 U	22.3	7.7
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	6.661	2.82	0 U	393	7.23	0 U	25.8	13.8
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	0.064	7.42	0 U	177.3	7.98	0 U	31.7	112.3
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	7.071	4.86	0 U	120.4	7.08	0 U	25	6.1
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	9.12	4.63	0 U	368.9	7.07	0 U	23.8	5.8
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	7.617	5.12	0 U	79.1	7.18	0 U	23.5	15.7
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	7.672	5.4	0 U	454.7	7.31	0 U	28.4	60.5
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	6.48	2.78	0 U	115	7.09	0 U	26.8	-0.8
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	6.953	3.05	0 U	133.3	7.15	0 U	24.6	24
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	8.581	2.14	0 U	473.8	7.17	0 U	23	8.1
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	7.666	4.5	0 U	108.6	7.17	0 U	23.9	19
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	6.833	3.65	0 U	513.3	7.05	0 U	24.2	228.6
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	5.921	2.7	0 U	161.6	6.9	0 U	25.3	68.6
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	7.23	2.91	0 U	92.6	7.15	0 U	25.5	29.5
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	8.408	2.21	0 U	486.8	7.12	0 U	23.8	7.5
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	6.871	5.06	0 U	174.9	7.18	0 U	22.6	15.3
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	6.923	4.65	0 U	523.3	7.14	0 U	26.1	20.6
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	2.703	2.04	0 U	112.4	7.31	0 U	30.7	72.6
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	2.826	0.27	0 U	-111.6	7.48	0 U	24.7	9.5
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	3.474	0.18	0 U	-20.9	7.48	0 U	22.1	7.3
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	3.843	0.16	0 U	-40.5	7.53	0 U	23.1	11.9
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	2.78	0.8	0 U	420.7	7.51	0 U	24.6	8.8
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	6.051	5.64	0 U	172.6	7.21	0 U	23.1	107.2
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	6.967	5.48	0 U	139.9	7.16	0 U	24.7	14.8
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	8.65	4.95	0 U	466.9	7.19	0 U	23.7	6.7

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Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[(1)]	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	7.388	6.31	0 U	128.3	7.21	0 U	22.6	68.6
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	6.793	6.06	0 U	523.1	7.19	0 U	23.3	16.5
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	6.186	5.54	0 U	190.7	7.23	0 U	24.6	152
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	7.107	5.23	0 U	119.1	7.15	0 U	25.6	14.5
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	8.738	4.29	0 U	485.6	7.16	0 U	23.9	12.8
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	0.069	8.93	0 U	242.1	7.57	0 U	21.1	74
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	6.836	5.65	0 U	507.7	7.19	0 U	24.8	24.1
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	6.172	3.91	0 U	140.5	7.2	0 U	24.4	9
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	7.064	4.98	0 U	130.6	7.1	0 U	24.9	11.2
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	8.395	2.7	0 U	497.3	7.11	0 U	23.5	11
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	9.343	4.48	0 U	173.9	7.17	0 U	23.5	12.4
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	6.808	4.78	0 U	507.3	7.19	0 U	24.4	8.9
General Vicinity																
Pre-Construction Baseline Results																
LVWPS-MW102A	10/21/2022	N	BL02	NA	Downgradient	30	UMCf	47.0 - 66.6	11.664	0.55	0 U	-35	7.26	0 U	23	146
LVWPS-MW102B	10/21/2022	N	BL02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	49.317	0.48	0 U	-240.7	7.38	0 U	23.9	116.3
LVWPS-MW107A	10/24/2022	N	BL02	NA	Downgradient	50	Alluvium	24.8 - 34.5	6.222	5.9	0 U	84	7.12	0 U	21.7	5.6
LVWPS-MW107B	10/21/2022	N	BL02	NA	Downgradient	50	UMCf	46.0 - 65.8	7.344	2.22	0 U	-170	7.28	0 U	26.6	8.9
LVWPS-MW107C	10/24/2022	N	BL02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	63.475	3.92	0 U	-5.8	7.46	0 U	21.3	333.7
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	6.685	0.36	----	-0.2	7.34	----	27	478.2
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	7.049	0.46	0 U	-17.7	7.35	0 U	21.5	36.8
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	7.153	0.53	----	85.2	7.34	----	35.2	55.2
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	7.65	0.65	0 U	40.8	7.22	0 U	23.3	41.3
Post-Construction Performance Monitoring Results																
LVWPS-MW102A	5/30/2023	N	PM01	NA	Downgradient	30	UMCf	47.0 - 66.6	12.755	0.65	0 U	24.9	7.1	0 U	24	199
LVWPS-MW102A	8/23/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	11.692	0.42	0 U	262.9	7.2	0 U	24.5	172.7
LVWPS-MW102A	10/11/2023	N	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	9.654	0.3	----	111.2	7.46	----	25	767.9
LVWPS-MW102A	10/11/2023	FS	PM02	NA	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	NA	Downgradient	30	UMCf	47.0 - 66.6	11.474	1.2	0 U	160	7.08	0 U	22.6	205.1
LVWPS-MW102A	2/27/2024	N	PM04	NA	Downgradient	30	UMCf	47.0 - 66.6	13.23	0.45	0 U	81.2	7.21	0 U	22.3	95.7
LVWPS-MW102A	5/23/2024	N	PM05	NA	Downgradient	30	UMCf	47.0 - 66.6	12.922	0.41	0 U	120.8	7.14	0 U	23.9	178.3
LVWPS-MW102B	5/26/2023	N	PM01	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	57.269	0.51	0 U	-179.9	7.35	0.6	27.2	85.5
LVWPS-MW102B	8/23/2023	N	PM02	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	52.223	0.3	0 U	-150	7.38	0.2	25.9	350.6
LVWPS-MW102B	12/1/2023	N	PM03	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	54.624	1.03	0 U	-217.3	7.34	0.2	22.8	160.7
LVWPS-MW102B	2/27/2024	N	PM04	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	54.219	0.37	0 U	-208.2	7.39	0.1	21.3	42
LVWPS-MW102B	5/23/2024	N	PM05	NA	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	57.083	0.54	0 U	-172.5	7.25	0.3	29.4	87.7
LVWPS-MW107A	5/23/2023	N	PM01	NA	Downgradient	50	Alluvium	24.8 - 34.5	7.217	0.49	0.2	66.9	7.8	0 U	27.1	6.2
LVWPS-MW107A	8/24/2023	N	PM02	NA	Downgradient	50	Alluvium	24.8 - 34.5	7.181	0.52	0 U	150.5	7.88	0 U	27.7	8.6
LVWPS-MW107A	11/30/2023	N	PM03	NA	Downgradient	50	Alluvium	24.8 - 34.5	6856	0.1	0 U	161.6	8.21	0 U	23.6	9.1
LVWPS-MW107A	2/22/2024	N	PM04	NA	Downgradient	50	Alluvium	24.8 - 34.5	5.585	5.54	0 U	75	8.1	0 U	23.6	48.4
LVWPS-MW107A	5/28/2024	N	PM05	NA	Downgradient	50	Alluvium	24.8 - 34.5	6.487	0.23	0 U	67	8.22	0 U	26.7	29.7
LVWPS-MW107B	5/23/2023	N	PM01	NA	Downgradient	50	UMCf	46.0 - 65.8	8.326	0.94	0 U	-183.7	7.4	0 U	28	10.9
LVWPS-MW107B	8/24/2023	N	PM02	NA	Downgradient	50	UMCf	46.0 - 65.8	4.333	5.77	0 U	-137.6	7.32	0.2	27.4	45.8
LVWPS-MW107B	12/1/2023	N	PM03	NA	Downgradient	50	UMCf	46.0 - 65.8	2666	2.4	0 U	54.4	7.64	0 U	19.5	7.8

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									Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Sulfide	Temperature	Turbidity
						feet			mS/cm	mg/L	mg/L	mV	SU	mg/L	C	NTU
LVWPS-MW107B	2/23/2024	N	PM04	NA	Downgradient	50	UMCf	46.0 - 65.8	6.442	1.46	0 U	-188.7	7.4	0.2	18.3	10.3
LVWPS-MW107B	5/24/2024	N	PM05	NA	Downgradient	50	UMCf	46.0 - 65.8	7.865	0.7	0 U	-179.7	7.44	0 U	29.1	12.5
LVWPS-MW107C	5/23/2023	N	PM01	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	65.406	0.37	0 U	-236	7.47	0 U	26.8	94.3
LVWPS-MW107C	8/24/2023	N	PM02	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	66.679	5.95	0.5	-131.4	6.98	1.2	34.6	8
LVWPS-MW107C	12/1/2023	N	PM03	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	63026	0.2	0 U	-220.7	7.36	0.3	15.8	7
LVWPS-MW107C	2/23/2024	N	PM04	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	60.847	1.2	0.5	-160.9	7.49	0.2	21.1	157.5
LVWPS-MW107C	5/28/2024	N	PM05	NA	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	63.053	0.35	0 U	-189.8	7.45	0.4	27.2	147.7
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	3.951	1.13	0 U	68.3	6.82	0 U	23.2	25.3
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	5.763	2.05	0 U	39.1	7.33	0 U	26.4	49.9
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	6.326	0.09	0 U	127.2	7.31	0 U	21.5	37.7
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	7.149	0.44	0 U	-37.6	7.28	0 U	24.6	19.4
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	6.935	0.43	0 U	53	7.27	0 U	26.9	44.7
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	4.951	1.18	0 U	47.5	6.58	0 U	26.1	8.8
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	5.846	0.95	0 U	24.2	7.2	0 U	26.3	15.7
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	6.634	1.63	0 U	151.7	7.22	0 U	21.6	208
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	5.345	0.37	0 U	20.9	7.24	0 U	22.8	24.5
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	6.39	0.8	0 U	96.4	7.25	0 U	28	26.6

Notes:
1. Distances from the discontinuous or continuous walls are shown as negative values for upgradient monitoring wells, as
bgs - below ground surface
J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be
< The analyte was analyzed for, but was not detected above the level of the reported sample
mg/L - milligram per liter
mS/cm - milliSiemens per centimeter
mV - millivolts
nmol - nanomol
SU - standard units
N - normal field sample
µg/L - micrograms per liter
UMCf - Upper Muddy Creek formation
FD - field duplicate
FS - field split