TETRA TECH

TECHNICAL MEMORANDUM

To:	**Nevada Environmental Response Trust**
Cc:	Nevada Division of Environmental Protection United States Environmental Protection Agency
From:	Dana Grady
Date:	January 17, 2025
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 November 2024 toward successfully implementing the Las Vegas Wash Zero-Valent Iron (ZVI)-Enhanced Bioremediation Treatability Study.

Task Progress Update: November 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.

  - <u>Performance Monitoring</u> – 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 original 16-month performance monitoring program outlined in the NDEP-approved Work Plan Addendum, which was scheduled to end in August 2024, was extended through May 2025 as presented in the NDEP-approved Treatability/Pilot Study Modification No. 10 (Modification No. 10). The performance monitoring program includes monthly synoptic gauging events to evaluate hydrologic changes over time and groundwater sampling events approximately one month after

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completion of the construction phase and quarterly thereafter for a total of 24 months. To date, the following has been completed:

- Eighteen monthly synoptic gauging events, with the most recent on November 18 through November 19, 2024.
- Six 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, May 2024, and September 2024.

The results of the sixth performance monitoring event conducted from September 5 through September 19, 2024 (approximately 17 months after completion of the construction phase) are summarized herein. The September 2024 monitoring event was the first performance monitoring event that included analysis of dissolved hydrogen by the alternative field method utilizing sensors developed by Unisense (Aarhaus, Denmark) in accordance with Modification No. 10. 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 September 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 September 2024 indicated an average perchlorate concentration of 4,833 micrograms per liter (µg/L), which is slightly higher 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 2,730 µg/L to 4,170 µg/L, which represents reductions ranging from 9 percent to 41 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 September 2024 sampling event did not indicate significant 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. In contrast, perchlorate concentration reductions in groundwater samples collected from downgradient monitoring wells within the Test 1b study area, which was constructed as a continuous wall with 30% ZVI, have been much more pronounced, as discussed below.

- Concentration reductions of chlorate and nitrate were more pronounced than perchlorate reductions, which is consistent with the conclusions of the bench-scale study 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. Groundwater samples collected from the three monitoring wells located within the continuous ZVI wall indicated chlorate concentration reductions ranging from 92 percent to greater than 99 percent and nitrate concentrations reductions of 56 percent to 95 percent when compared to baseline concentrations. Groundwater samples collected from all 11 monitoring wells located 5 to 25 feet downgradient of the continuous ZVI wall indicated chlorate concentrations reductions ranging from 13 percent to 63 percent and averaging 39 percent when compared to baseline. Groundwater samples collected from eight of the 11 monitoring wells located 5 to 25 feet downgradient of the continuous ZVI wall indicated nitrate concentration reductions ranging from 7 percent to 70 percent when compared to baseline concentrations.
- Lastly, dissolved hydrogen is another key indicator parameter that is being monitored during the treatability study because it is produced from the slow corrosion of ZVI and can be used as an electron donor by perchlorate reducing bacteria for degradation of perchlorate. The baseline dissolved hydrogen concentrations within the Test 1a area averaged 68 nanomolar (nM). The groundwater sample collected from monitoring well ZTS-MW154 (located directly within the continuous ZVI wall) indicated a slightly elevated dissolved hydrogen concentration of 220 nM compared to the average baseline concentration of 68 nM This increase in dissolved hydrogen concentration is unlikely due to the change in dissolved hydrogen test method, as the increase in dissolved hydrogen correlates with significant reductions in perchlorate, chlorate, and nitrate concentrations reported in groundwater samples collected from monitoring well ZTS-MW154, which were the lowest concentrations of all groundwater samples collected from the alluvium in Test Area 1a during the September 2024 monitoring event. Despite low dissolved hydrogen concentrations in groundwater samples collected from monitoring wells ZTS-MW150 and ZTS-MW164 (also located within the continuous ZVI wall), perchlorate concentrations in groundwater at these locations continue to indicate perchlorate concentration reductions of up to 34 percent compared to the average baseline concentration. A slightly elevated dissolved hydrogen concentration of 200 nM was also reported in the groundwater sample collected from monitoring well ZTS-MW157, which is located 15 feet downgradient of the continuous ZVI wall within the Test Area 1a. This result generally correlates with perchlorate concentrations in the groundwater sample collected from this location, which showed a perchlorate concentration reduction of 24 percent compared to baseline concentrations. Dissolved hydrogen concentrations were also slightly elevated at concentrations greater than 100 nM in groundwater samples collected from three farther

downgradient monitoring wells. However, perchlorate concentration reductions were not reported in groundwater samples collected from these same locations.

- 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 September 2024 indicated an average perchlorate concentration of 6,165 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 5,320 µg/L to 6,010 µg/L. Although these concentrations represent reductions ranging from 17 percent to 26 percent compared to the average baseline concentration of 7,234 µg/L, the September 2024 concentrations in the groundwater samples collected from within the continuous ZVI wall are only approximately 9 percent lower than the current upgradient perchlorate concentrations. Perchlorate concentration reductions were more pronounced in the groundwater samples collected from the 11 downgradient alluvium monitoring wells, which indicated reductions in perchlorate concentrations ranging from 16 percent to 73 percent when compared to the average baseline perchlorate concentration. Of these, the perchlorate concentrations in groundwater samples collected from downgradient monitoring wells ZTS-MW179 and ZTS-MW180 measured 1,950 µg/L and 2,870 µg/L, respectively, which are the lowest perchlorate concentrations reported to date in groundwater collected from these monitoring wells.
    - 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 all 14 of the monitoring wells within Test Area 1b (wells located both within the continuous ZVI wall and downgradient) reduced by an average of 94 percent compared to the average baseline chlorate concentration. Furthermore, chlorate concentrations reduced to less than the laboratory detection limit in groundwater samples collected from eight monitoring wells. Similarly, groundwater samples collected from 13 of the 14 monitoring wells located within or downgradient of the continuous ZVI wall indicated nitrate concentration reductions averaging 77 percent and ranging from 34 percent to greater than 99 percent compared to baseline.
    - Baseline dissolved hydrogen concentrations averaged 21 nM in the alluvium within the Test Area 1b. Groundwater samples collected during September 2024 from all three monitoring wells located within the continuous ZVI wall indicated elevated dissolved hydrogen concentrations ranging from 100 nM to 39,550 nM. The highest dissolved hydrogen concentration of 39,550 nM was measured in the groundwater sample collected from ZTS-MW178 and represents the highest dissolved

hydrogen concentration measured to date in samples collected from this location. This elevated dissolved hydrogen concentration using the new testing method generally correlates with previously measured elevated dissolved hydrogen concentrations in groundwater collected from this well, with a February 2024 dissolved hydrogen concentration of 20,200 nM reported using the previous laboratory analytical method for dissolved hydrogen. Elevated dissolved hydrogen concentrations of 500 nM and 220 nM were also present in groundwater samples collected from ZTS-MW167 and ZTS-MW172, respectively, which are both located 5 feet downgradient of the continuous ZVI wall. This suggests that dissolved hydrogen is available for perchlorate reduction downgradient of the ZVI wall, which is consistent with the observed spatial distribution of perchlorate reduction (i.e., slightly greater perchlorate reduction reported in groundwater samples collected from downgradient monitoring wells compared to concentrations reported immediately within the continuous ZVI wall).

- 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 September 2024 indicated an average perchlorate concentration of 5,865 µg/L, which is 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 41 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 4,000 µg/L during the September 2024 sampling event.
    - Chlorate and nitrate concentration reductions of up to 71 percent and 48 percent, respectively, were reported in the groundwater samples collected from monitoring wells located immediately downgradient of the discontinuous ZVI wall. Chlorate and nitrate concentrations in groundwater samples collected from the remaining downgradient monitoring wells were similar to or slightly higher than the upgradient average concentrations.
    - The baseline dissolved hydrogen concentrations in groundwater samples collected from monitoring wells located within Test Area 2a during the October 2022 baseline sampling event averaged 15 nM. The most notable elevated dissolved hydrogen concentrations within Test Area 2a during the September 2024 monitoring event were the groundwater samples collected from monitoring wells ZTS-MW191 and ZTS-MW192 (located within and immediately downgradient of the discontinuous ZVI wall), which indicated dissolved hydrogen concentrations of 520 nM and 560 nM, respectively. These results generally correlate with the perchlorate, chlorate, and nitrate concentration trends observed at these same locations.

- 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 to 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. Notable perchlorate concentration reductions were reported in groundwater samples collected from four of the eight monitoring wells located two to seven feet downgradient of the discontinuous ZVI wall, with reductions ranging from 40 percent to 98 percent compared to baseline. In general, monitoring wells screened in the shallow UMCf have generally indicated higher reductions in perchlorate compared to the deeper UMCf. For example, perchlorate concentration reductions greater than 99 percent have been observed in groundwater samples collected from three downgradient shallow UMCf monitoring wells compared to a maximum concentration reduction of 66 percent in groundwater samples collected from one downgradient deep UMCf monitoring well since the study began.
    - Chlorate concentration reductions of greater than 50 percent were reported in groundwater samples collected from all eight monitoring wells located two to seven feet downgradient of the discontinuous ZVI wall, with reductions greater than 90 percent in groundwater samples collected from three of these downgradient monitoring wells. Nitrate concentrations measured less than 1 mg/L (which represents reductions of greater than 85 percent compared to the average baseline concentration) in groundwater samples collected from four of the eight monitoring wells located two to seven feet downgradient of the discontinuous ZVI wall.
    - Dissolved hydrogen concentrations averaged 79 nM during the October 2022 baseline event. The groundwater sample collected from downgradient monitoring well ZTS-MW200, which is located two feet downgradient of the discontinuous ZVI wall and screened in the deep UMCf, continued to exhibit significantly elevated dissolved hydrogen concentrations, with a concentration of 9,690 nM in September 2024. Slightly elevated dissolved hydrogen concentrations ranging from 130 nM to 360 nM were reported in five of the seven remaining monitoring wells located two to seven feet downgradient.
- 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 September 2024 indicated an average perchlorate concentration of 6,348 µg/L, which is slightly 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 eight of the nine monitoring wells located within or downgradient of the discontinuous ZVI wall were similar to upgradient concentrations, with an average perchlorate concentration of 6,395 µg/L during the September 2024 sampling event. The exception was the perchlorate concentration of 3,260 µg/L reported for the groundwater sample collected from monitoring well ZTS-MW185 (located 15 feet downgradient of the discontinuous ZVI wall), which represents a reduction of 53 percent compared to baseline conditions.

- Slight chlorate reductions of up to 16 percent were reported in groundwater samples collected from within and immediately downgradient of the Test Area 2c discontinuous ZVI wall compared to the average upgradient concentration of 56,425 µg/L in September 2024. Nitrate concentrations in groundwater samples collected from within and immediately downgradient of the discontinuous wall were generally similar to the average upgradient concentration of 23.3 mg/L in September 2024.
- Dissolved hydrogen concentrations averaged 5.5 nM during the October 2022 baseline event. Despite an initial increase in dissolved hydrogen concentrations reported in groundwater samples collected from several monitoring wells during the May 2023 sampling event (one month following construction completion), dissolved hydrogen concentrations returned to baseline levels in the subsequent monitoring events. Groundwater samples collected during the September 2024 monitoring event indicated increases in dissolved hydrogen concentrations ranging from 120 nM to 740 nM in groundwater samples collected from seven of the nine monitoring wells located within and downgradient of the discontinuous ZVI wall. Although these are notable increases, only slight reductions of perchlorate concentrations were reported during the September 2024 monitoring event. Data collection through the remaining study extension timeframe will provide additional data to determine if these recent dissolved hydrogen increases are sustained and/or correlate with perchlorate concentration trends.

- 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 November 2024 monthly synoptic monitoring event do not indicate any significant changes to groundwater elevations in monitoring wells located upgradient, within, and/or downgradient of ZVI reactive zones.

- Schedule and Progress Updates
  - Groundwater levels will continue to be measured on a monthly basis for the duration of the treatability study.
  - 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 is planned for December 2 through December 13, 2024.
- Health and Safety
  - There were no health and safety incidents related to Task M18 during November 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: 1/17/25

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.

January 17, 2025

Christopher Hayes, CEM
Environmental Engineer
Tetra Tech, Inc.

Date

Nevada CEM Certificate Number: EM2499
Nevada CEM Expiration Date: December 15, 2026

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.

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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

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

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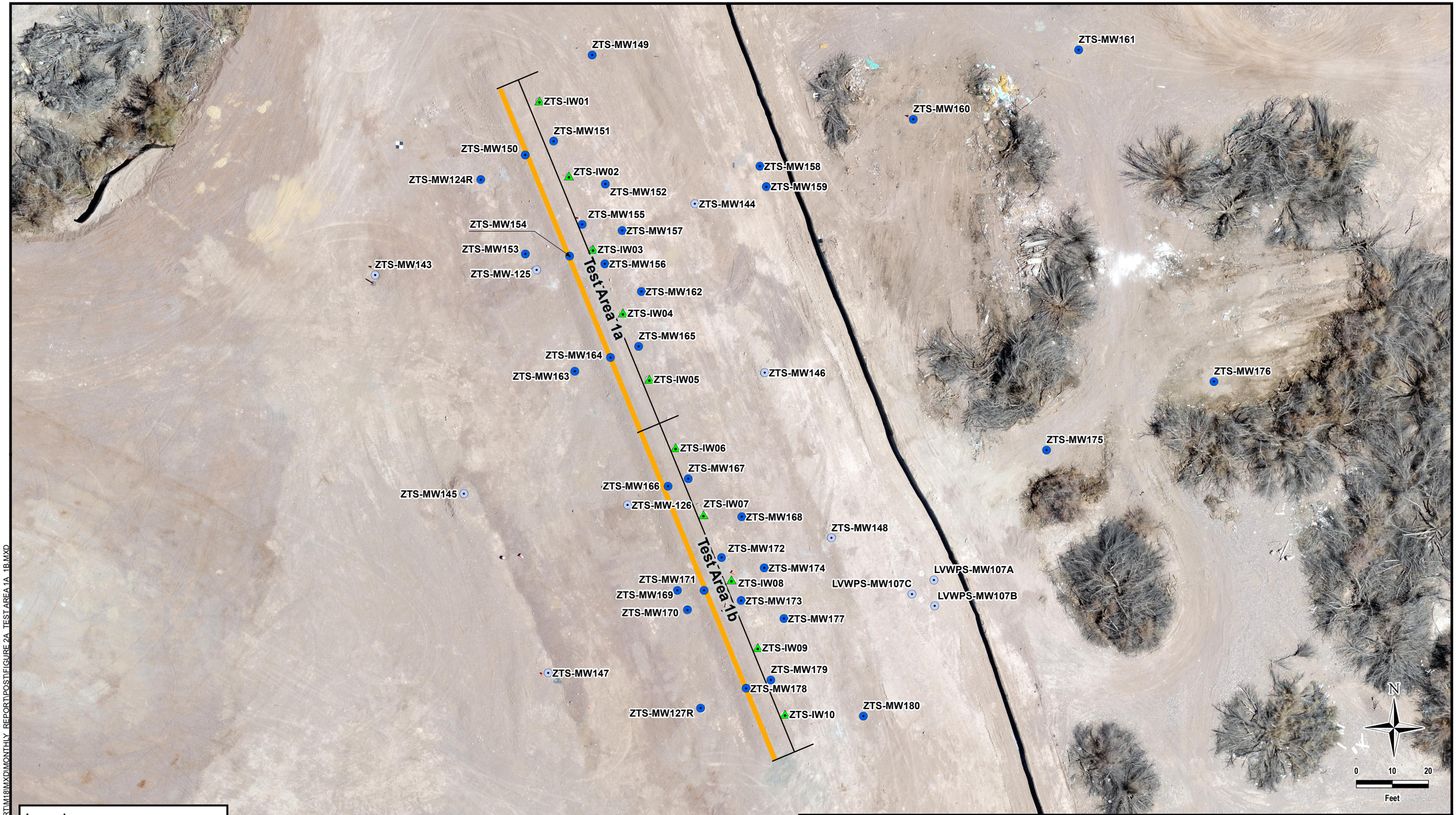

Legend

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

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

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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

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

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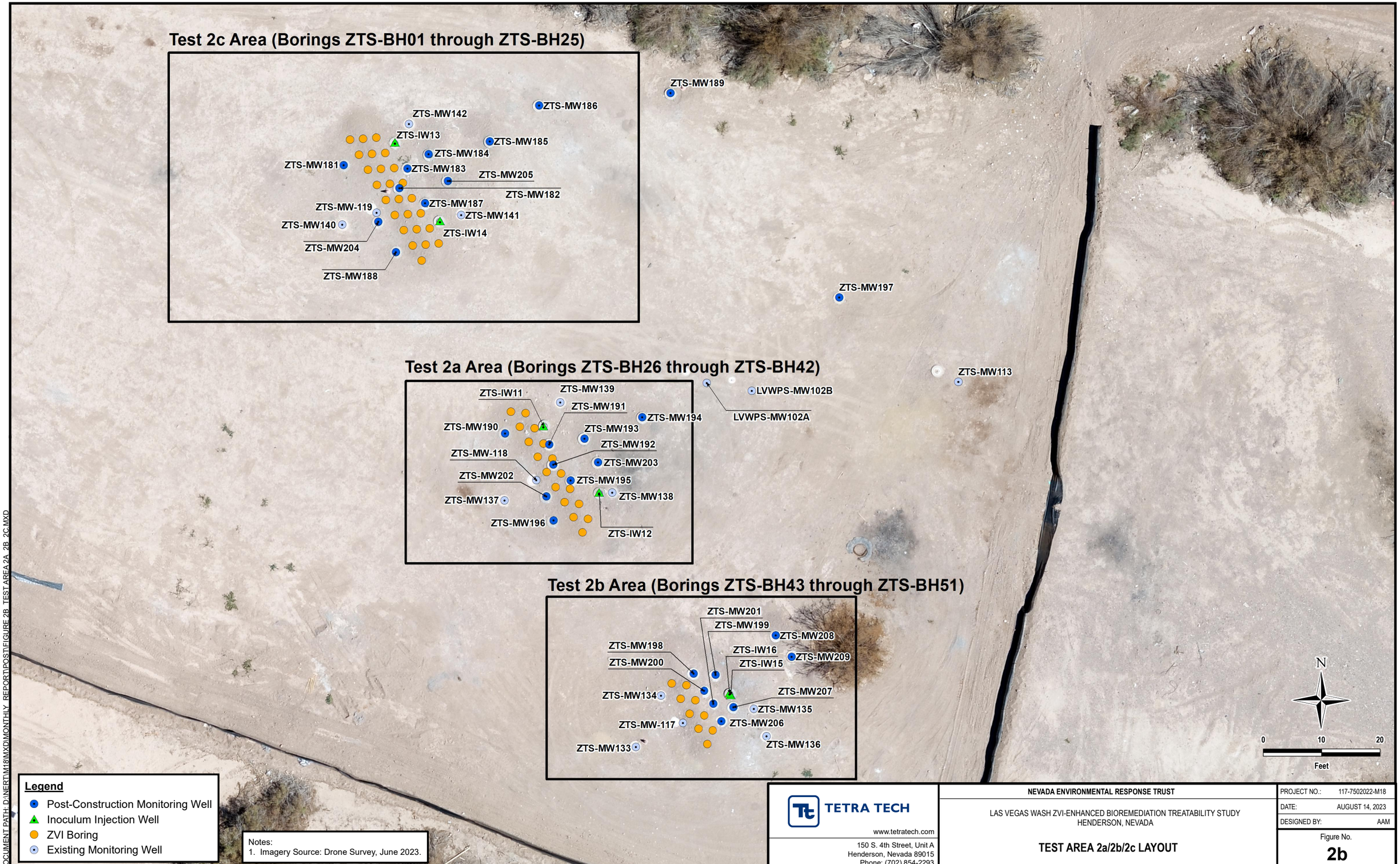

Legend

- 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/SW9065 A	Anions by E300.0/SW9065 A	Anions by E300.0/SW9065 A	Anions by E300.0/SW9065 A	Anions by E300.0/SW9065 A	Anions by E300.0/SW9065 A	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	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	26,600
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	17,900
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	17,600
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	<50
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	18,900
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	15,000
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	15,500
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	12,200
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	12,900
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	14,200
ZTS-MW143	9/13/2024	N	PM06	1A	Upgradient	-50	Alluvium	23.0 - 33.0	5,240	42,000	<680	1,040,000	755	11,200	<79.4	2,500,000	12,000
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	17,100
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	17,700
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	12,700
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	34,800
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	14,700
ZTS-MW124R	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.5 - 34.0	4,300	31,800	<6,800	911,000	819 J	11,300	<794	2,410,000 J+	14,800 J+
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	645
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	3,730
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	3,740
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	6,020
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	3,410
ZTS-MW125	9/16/2024	N	PM06	1A	Upgradient	-8	UMCf	40.0 - 50.0	9.73	<158	<680	147,000	619	<88.4	<79.4	300,000 J+	313 J+
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	17,200
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	15,300
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	14,700
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	23,900
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	14,900
ZTS-MW153	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	5,150	32,100	<6,800	995,000	<761	10,600	<794	2,610,000 J+	14,200 J+
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	14,700
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	15,100
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	14,700
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	26,000
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	15,300
ZTS-MW163	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	4,640	33,600	<6,800	956,000	<761	11,600	<794	2,550,000 J+	14,600 J+
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	3,440
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	2,760
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	3,210
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	2,820
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	4,170
ZTS-MW150	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	24.3 - 34.0	3,060	3,100	<6,800	934,000	<761	7,300	3,690	1,730,000	11,600
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	1,580
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	3,560
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	3,970

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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+	3,030
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	3,860
ZTS-MW154	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,730	198 J	<6,800	947,000	<761	<884	<794	2,010,000	1,780
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	4,600
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	4,390
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	3,010
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	3,220
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	4,440
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	3,610
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+	4,750
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+	4,950
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	3,750
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	819
ZTS-MW164	9/6/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,170	1,390	<6,800	997,000	<761	7,080	<794	1,950,000 J	2,960
ZTS-MW164	9/6/2024	FD	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,070	1,390	<6,800	1,020,000	<761	7,000	<794	2,460,000 J	3,140
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	4,060
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	6,620
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	8,850
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+	10,900
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	12,100
ZTS-MW151	9/11/2024	N	PM06	1A	Downgradient	5	Alluvium	24.3 - 34.0	4,680	18,500	<6,800	968,000	<761	15,300	3,230 J+	2,050,000	9,750
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	3,080
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	3,280
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	7,550
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	7,750
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	5,910
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	6,140
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	9,200
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	9,200
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	10,000
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	9,800
ZTS-MW155	9/10/2024	N	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	5,260	16,600	<680	1,040,000	612	8,840	941 J	2,310,000	8,250
ZTS-MW155	9/10/2024	FD	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	5,460	16,400	<680	1,030,000	584	8,990	1,680 J	2,310,000	8,200
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	<50
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	<50
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	706 J+
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	901 J+
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	5,940
ZTS-MW156	9/9/2024	N	PM06	1A	Downgradient	5	UMCf	43.8 - 53.5	<4	<158	<6,800	748,000	<761	<884	<794	1,160,000	14,800
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	5,930
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	9,780
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	12,600
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	30,300
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	13,300
ZTS-MW165	9/6/2024	N	PM06	1A	Downgradient	5	Alluvium	22.3 - 32.0	5,440	32,600	<6,800	981,000	776 J	19,100	3,770	2,080,000	14,100
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	4,650
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	8,400
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	8,450
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+	7,450
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	14,600
ZTS-MW152	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	5,060	25,700	<680	1,090,000	608	13,200	1,170	2,360,000	11,100

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	3,050
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	5,770
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	6,410
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	10,100
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	8,920
ZTS-MW157	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	3,520	18,300	<680	1,080,000	517	10,000	1,530	2,330,000	9,150
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	5,140
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	8,250
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	11,800
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	15,200
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	11,800
ZTS-MW162	9/9/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	6,500	31,900	<6,800	986,000	1,630	22,800	<794	2,590,000	17,100
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	13,500
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	14,600
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	14,000
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	23,900
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	14,900
ZTS-MW149	9/11/2024	N	PM06	1A	Downgradient	25	Alluvium	23.3 - 33.0	4,430	30,900	<6,800	942,000	<761	19,100	<794	1,990,000	13,000
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	6,060
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	5,660
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	7,010
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	24,200
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	8,640
ZTS-MW144	9/11/2024	N	PM06	1A	Downgradient	35	Alluvium	24.0 - 34.0	5,280	15,000	<6800 UJ	1,020,000	855 J	13,000 J-	<794	2,110,000	8,570
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	4,680
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	7,350
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	7,230
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	24,600
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	8,770
ZTS-MW158	9/12/2024	N	PM06	1A	Downgradient	50	Alluvium	23.3 - 33.0	5,330	20,400	<680	1,070,000	740	4,970	<79.4	2,510,000	8,270
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	730
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	9,080
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	8,470
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	9,900
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	9,950
ZTS-MW159	9/12/2024	N	PM06	1A	Downgradient	50	UMCf	38.8 - 48.5	3,230	21,000	<680	874,000	839	6,030	<79.4	1,990,000	7,400
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	8,190
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	10,400
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	10,500
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	12,900
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	12,900
ZTS-MW160	9/13/2024	N	PM06	1A	Downgradient	100	Alluvium	23.3 - 33.0	5,030	35,900	<680 UJ	989,000	639 J	9,750 J-	<79.4	2,550,000	10,700
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	4,640
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	9,690
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	10,200
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	8,700
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	8,780
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	20,500
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	21,400
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	11,800
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	11,900

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW161	9/13/2024	N	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	4,940	31,600	<680	1,020,000	743	8,850	<79.4	2,500,000	10,000
ZTS-MW161	9/13/2024	FD	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	4,860	31,600	<680	1,020,000	630	8,750	<79.4	2,500,000	9,850
Between Test Area 1A and Test Area 1B																	
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	3,730
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	5,500
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	695
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	156
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	<50
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	435 J+
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	327
ZTS-MW145	9/16/2024	N	PM06	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<4	<158 UJ	<6800 UJ	773,000	1,610 J-	<884 UJ	<794	1,690,000	182 J+
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	2,780
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	436 J+
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	163
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	243 J
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	<50
ZTS-MW146	9/12/2024	N	PM06	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<4	<158	<680	1,070,000	850	<88.4	<79.4	2,180,000	346 J+
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	21,500
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	18,600
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	15,400
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	18,800
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	38,500
LVWPS-MW107A	10/24/2022	N	BL02	1B	Downgradient	50	Alluvium	24.8 - 34.5	7,070	91,100	<3,530	1,170,000	<640	19,600	<420	2,650,000	18,000
LVWPS-MW107B	10/21/2022	N	BL02	1B	Downgradient	50	UMCf	46.0 - 65.8	<30	<2,400	<7,060	1,200,000	<1,280	<960	<840	2,830,000	1,630
LVWPS-MW107C	10/24/2022	N	BL02	1B	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	638
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	28,000
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	18,600
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	19,300
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	33,300
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	19,300
ZTS-MW147	9/16/2024	N	PM06	1B	Upgradient	-50	Alluvium	19.5 - 29.5	6,070	53,400	<6800 UJ	1,030,000	1,350 J	15,300 J-	<794	2,790,000 J+	16,000 J+
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	12,000
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	12,500
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	14,200
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	12,700
ZTS-MW126	9/13/2024	N	PM06	1B	Upgradient	-8	Alluvium	20.0 - 30.0	6,560	44,300	<680	1,030,000	794	10,700	<79.4	2,800,000	11,900
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	17,900
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	18,400
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	22,200
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	22,200
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	18,400
ZTS-MW127R	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	18.5 - 23.0	6,060	50,900	<6,800	1,040,000	1,400 J	15,500	<794	2,710,000 J+	19,900 J+
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	18,100

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	18,600
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	18,400
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	23,100
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	18,000
ZTS-MW169	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	17.1 - 27.0	5,970	52,500	<6,800	1,040,000	846 J	15,700	<794	2,730,000 J+	20,000 J+
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	8,750
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	15,400
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	11,000
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	14,500
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	9,840
ZTS-MW170	9/16/2024	N	PM06	1B	Upgradient	-8	UMCf	31.1 - 41.0	6,000	49,300	<6,800	1,020,000	1,400 J	14,200	<794	2,660,000 J+	18,100 J+
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	2,680
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	5,110
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	7,900
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+	12,300
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	7,110
ZTS-MW166	9/6/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.8 - 29.5	6,010	<158	<6,800	1,060,000	<761	12,500	3,890	2,500,000	9,170
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	14,700
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	6,950
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	5,120
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	1,760
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	7,480
ZTS-MW171	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.3 - 29.0	5,320	218 J	<6,800	1,060,000	<761	10,600	3,790	2,080,000	17,800
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	14,500
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	6,260
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	9,640
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+	13,000
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	11,700
ZTS-MW178	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	17.8 - 27.5	5,590	<158	<6,800	1,070,000	<761	<884	<794	2,030,000	13,600
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	3,120
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	5,260
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	5,830
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+	7,720
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	7,790
ZTS-MW167	9/6/2024	N	PM06	1B	Downgradient	5	Alluvium	23.3 - 33.0	6,070	1,760	<6,800	1,080,000	<761	9,730	4,310	2,080,000	9,290
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	16,800
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	17,100
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	14,000
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	13,900
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	6,560
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	6,480
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	7,870
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	7,650
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	11,000
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	10,100
ZTS-MW172	9/11/2024	N	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	4,770	<158	<680	1,040,000	262 J	4,610	<79.4	2,380,000	12,400
ZTS-MW172	9/11/2024	FD	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	5,140	<158	<680	1,050,000	571 J	5,350	<79.4	2,390,000	12,200
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	1,750
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	2,000
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	729 J+
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	3,450

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	4,410
ZTS-MW173	9/12/2024	N	PM06	1B	Downgradient	5	UMCf	33.3 - 43.0	3,480	6,820	<680	879,000	923	2,370	<79.4	1,960,000	3,840
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	17,700
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	16,900
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	16,000
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	13,900
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	9,710
ZTS-MW179	9/10/2024	N	PM06	1B	Downgradient	5	Alluvium	18.3 - 23.0	1,950	<317	<680	1,050,000	341	1,580	1,240	2,520,000	11,000
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	11,200
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	11,000
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	9,100
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	12,900
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	8,990
ZTS-MW168	9/6/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,190	<317	<6,800	1,070,000	<761	11,100	3,960	2,100,000	12,200
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	12,500
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	11,600
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	6,550
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	9,290
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	7,350
ZTS-MW174	9/11/2024	N	PM06	1B	Downgradient	15	Alluvium	19.8 - 29.5	4,790	<158	<680	1,040,000	567	<88.4	<79.4	2,430,000	8,590
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	6,130
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	7,840
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	7,360
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	10,300
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	11,400
ZTS-MW177	9/10/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	3,770	<317	<680	1,040,000	428	2,710	1,070	2,430,000	12,900
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	18,500 J
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	12,300 J
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	18,600
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	19,100
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	16,200
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	16,100
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	15,800
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	15,900
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	18,500
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	18,900
ZTS-MW180	9/10/2024	N	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,870 J	50,300	<680	1,010,000	536	22,600	<79.4	2,510,000	20,200
ZTS-MW180	9/10/2024	FD	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	3,980 J	48,900	<680	1,010,000	605	22,500	<79.4	2,520,000	20,000
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	13,600
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	10,400
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	7,230
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+	8,890
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	10,200
ZTS-MW148	9/12/2024	N	PM06	1B	Downgradient	35	Alluvium	22.0 - 32.0	4,920	<158	<680	1,070,000	437	<88.4	<79.4	2,440,000	10,100

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107A	5/23/2023	N	PM01	1B	Downgradient	50	Alluvium	24.8 - 34.5	6,410	933 J	<3,530	1,050,000	<640	1,880	<420	2,460,000	9,370
LVWPS-MW107A	8/24/2023	N	PM02	1B	Downgradient	50	Alluvium	24.8 - 34.5	4,510	137 J-	<3,530	1,070,000	<640	2,990	<420	2,290,000	8,860
LVWPS-MW107A	11/30/2023	N	PM03	1B	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	8,840
LVWPS-MW107A	2/22/2024	N	PM04	1B	Downgradient	50	Alluvium	24.8 - 34.5	4,070	12,100	<3,530	939,000	<640	<480	<420	2,070,000	9,370
LVWPS-MW107A	5/28/2024	N	PM05	1B	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	11,200
LVWPS-MW107A	9/12/2024	N	PM06	1B	Downgradient	50	Alluvium	24.8 - 34.5	5,280	5,840	<680	1,050,000	516	<88.4	<79.4	2,440,000	12,400
LVWPS-MW107B	5/23/2023	N	PM01	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.3	<480	<3,530	1,140,000	708 J	<480	<420	2,520,000	423
LVWPS-MW107B	8/24/2023	N	PM02	1B	Downgradient	50	UMCf	46.0 - 65.8	11.3	86.6 J	<3,530	671,000	<640	3,790	<420	1,620,000	1,150
LVWPS-MW107B	12/1/2023	N	PM03	1B	Downgradient	50	UMCf	46.0 - 65.8	8.28	<120	<3,530	270,000	<640	<480 R	<420 R	818,000	1,100
LVWPS-MW107B	2/23/2024	N	PM04	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.3	<240	<3,530	1,140,000	1,080 J	<480	<420	2,660,000	420 J+
LVWPS-MW107B	5/24/2024	N	PM05	1B	Downgradient	50	UMCf	46.0 - 65.8	<3	<240	<35,300	1,060,000	8,990 J	<4,800	<4,200	2,570,000	300 J+
LVWPS-MW107B	9/12/2024	N	PM06	1B	Downgradient	50	UMCf	46.0 - 65.8	<8	<158	<680	1,190,000	751	<88.4	<79.4	2,810,000	375 J+
LVWPS-MW107C	5/23/2023	N	PM01	1B	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	<50
LVWPS-MW107C	8/24/2023	N	PM02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.3	<120 UJ	40,600	9,600,000	<640	<480	<420	31,500,000	<50
LVWPS-MW107C	12/1/2023	N	PM03	1B	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	4,840
LVWPS-MW107C	2/23/2024	N	PM04	1B	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	115,000
LVWPS-MW107C	5/28/2024	N	PM05	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<30	<240	<35,300	12,800,000	<6,400	<480	<420	37,000,000	212
LVWPS-MW107C	9/13/2024	N	PM06	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<80	<1,580	<6,800	13,200,000	<761	<884	<794	41,600,000	624
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	8,920
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	4,230
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	4,550
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	5,250
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	7,940
ZTS-MW175	9/12/2024	N	PM06	1B	Downgradient	100	Alluvium	19.8 - 29.5	5,280	2,180	<680	1,070,000	591	1,300	113	2,560,000	10,100
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	6,720
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	4,630
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	4,690
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	6,950
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	6,660
ZTS-MW176	9/13/2024	N	PM06	1B	Downgradient	150	Alluvium	19.8 - 29.5	5,580	11,700	<680	1,070,000	668	2,450	<79.4	2,810,000	8,580
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	18,900
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	18,900
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	18,800
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	18,600
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	18,100
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	18,900
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	18,200
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	19,800
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	31,100
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	20,000
ZTS-MW137	9/16/2024	N	PM06	2A	Upgradient	-9	Alluvium	14.0 - 24.0	5,660	48,900	<6,800	1,020,000	1,290 J	16,200	<794	2,690,000 J+	20,000 J+
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	18,800
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	19,000
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	19,600
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	18,700
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	19,700
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	19,700

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	30,300
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	30,900
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	19,700
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	19,900
ZTS-MW118	9/16/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,320	54,600	<6,800	1,110,000	1,410 J	16,400	<794	2,790,000 J+	19,900 J+
ZTS-MW118	9/16/2024	FD	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	6,110	54,400	<6,800	1,090,000	813 J	16,100	<794	2,710,000 J+	19,700 J+
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	19,400
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	18,700
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	19,500
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	19,400
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	19,100
ZTS-MW190	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	14.3 - 24.0	5,800	65,700	<680	1,010,000	575 J+	16,000	<79.4	2,350,000	19,700
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	19,400
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	19,200
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	19,400
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	28,700
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	19,000
ZTS-MW196	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.8 - 23.5	5,680	64,200	<680	1,000,000	548 J+	16,400	<79.4	2,330,000	19,000
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	16,200
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	16,700
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	13,200
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	11,100
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	17,100
ZTS-MW202	9/16/2024	N	PM06	2A	Upgradient	-3	UMCf	28.8 - 38.5	5,080	38,500	<6,800	934,000	843 J	12,300	<794	2,440,000 J+	15,100 J+
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	16,800
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	19,200
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	20,200
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+	19,800
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	19,800
ZTS-MW192	9/17/2024	N	PM06	2A	Center of Array	0	Alluvium	14.3 - 24.0	5,620	64,100	<680	1,010,000	453 J+	16,100	<79.4	2,320,000	19,100
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	9,260
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	9,750
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	12,100
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	10,300
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	11,400
ZTS-MW191	9/18/2024	N	PM06	2A	Downgradient	1	Alluvium	14.8 - 24.5	4,000	25,500	<6,800	1,020,000	<761	13,700	3,800	2,030,000	12,700
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	17,800
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	17,600
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	20,800
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	19,000
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	18,200
ZTS-MW195	9/19/2024	N	PM06	2A	Downgradient	1	Alluvium	14.3 - 24.0	5,490	61,600	<6,800	1,020,000	<761	9,680	<79.4	2,450,000	14,900
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	19,100
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	19,700
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	20,600
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	20,200
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	20,400
ZTS-MW138	9/17/2024	N	PM06	2A	Downgradient	5	Alluvium	14.0 - 24.0	5,630	63,400	<680	1,010,000	449 J+	16,100	<79.4	2,330,000	18,800
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	16,300
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	18,700
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	18,300

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	19,200
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	18,200
ZTS-MW139	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.0 - 23.0	6,020	58,700	<6,800	1,030,000	<761	25,300	3,770	2,100,000	16,200
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	16,900
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	18,300
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	20,300
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	18,700
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	18,800
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	18,400
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	18,800
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	18,400
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	18,800
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	19,100
ZTS-MW193	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,850	60,300	<6,800	1,030,000	<761	25,500	<794	2,150,000	16,900
ZTS-MW193	9/18/2024	FD	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	5,020	60,900	<6,800	1,020,000	<761	25,400	<794	2,190,000	16,500
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	14,400
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	14,900
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	11,500
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	8,180
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	13,600
ZTS-MW203	9/17/2024	N	PM06	2A	Downgradient	5	UMCf	28.3 - 38.0	4,860	47,200	<680	951,000	627 J+	11,100	<79.4	2,090,000	13,200
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	19,100
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	20,500
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	22,300
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	18,300
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	20,700
ZTS-MW194	9/18/2024	N	PM06	2A	Downgradient	15	Alluvium	17.8 - 22.5	5,450	60,300	<6,800	1,020,000	<761	26,500	<794	2,200,000	16,800
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	18,700
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	20,300
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	19,000
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	18,100
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	19,600
ZTS-MW197	9/17/2024	N	PM06	2A	Downgradient	55	Alluvium	12.8 - 22.5	5,510	61,900	<680	1,000,000	474 J+	16,400	<79.4	2,360,000	20,500
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	19,200
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	18,400
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	16,600
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	25,900
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	18,700
ZTS-MW113	9/19/2024	N	PM06	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	5,700	59,600	<6,800	1,070,000	<761	8,380	<79.4	2,420,000	12,800
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	2,020
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	<50
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	<50
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	18,400
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	2,640
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	2,330
Post-Construction Performance Monitoring Results																	

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	2,660
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	2,820
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	2,900
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	15,200
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	3,260
ZTS-MW133	9/17/2024	N	PM06	2B	Upgradient	-9	UMCf	54.0 - 69.0	3,310	12,800	<6800 UJ	1,310,000	<761 UJ	12,900 J-	<794	3,400,000	3,240
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	403
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	<50
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	485 J+
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	<140
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	<50
ZTS-MW117	9/17/2024	N	PM06	2B	Upgradient	-2	UMCf	40.5 - 55.5	<4	<158	<6,800	1,190,000	<761	<884	<794	2,820,000	<50
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	16,000
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	17,000
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	16,800
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	17,000
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	16,300
ZTS-MW134	9/19/2024	N	PM06	2B	Upgradient	-2	UMCf	26.0 - 36.0	3,970	45,500	<6,800	1,030,000	<761	7,010	<79.4	2,070,000	12,600
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	2,450
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	3,460
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	400
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+	197 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	460
ZTS-MW198	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	26.1 - 46.0	549	2,610	<6,800	1,270,000	<761	11,000	<794	2,100,000	820
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	294
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	394
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	61.6 J
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	321
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+	408 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	328
ZTS-MW200	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	1,880	<158	<6,800	1,380,000	<761	<884	<794	2,320,000	886
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	775
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	1,440
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	1,570
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	1,550
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	1,810
ZTS-MW201	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	27.1 - 47.0	3,030	12,100	<6,800	1,380,000	<761	10,900	<794	2,490,000	3,310
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	1,250
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	2,030
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	2,210
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	2,100
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	2,600
ZTS-MW206	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	2,870	11,400	<6,800	1,330,000	<761	9,650	<794	2,410,000	2,770
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	3,110
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	4,100
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	3,730
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	4,030
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	4,340
ZTS-MW199	9/19/2024	N	PM06	2B	Downgradient	5	UMCf	50.1 - 65.0	4,670	16,800	<3,400	1,290,000	529 J	909	<79.4	2,590,000	3,650
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	1,430 J
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	1,940 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	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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	863
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	788
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	1,030 J+
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	1,000 J+
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	337
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	329
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	375
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	391
ZTS-MW207	9/17/2024	N	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	1,790	6,740	<680	1,170,000	850	499	<79.4	2,160,000	1,740 J
ZTS-MW207	9/17/2024	FD	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	1,920	5,840	<680	1,170,000	869	559	<79.4	2,180,000	2,470 J
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	3,840
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	4,020
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	4,350
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	16,700
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	4,830
ZTS-MW135	9/17/2024	N	PM06	2B	Downgradient	7	UMCf	54.0 - 69.0	4,260	19,200	<680	1,550,000	739	2,910	<79.4	3,100,000	4,810
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	257 J
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	414 J
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	81.7 J
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	356 J
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	560 J+
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	442 J+
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	<140
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	<140
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	566 J
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	1,100 J
ZTS-MW136	9/12/2024	N	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	59.7	<158	<680	822,000	959	<88.4	<79.4	1,680,000	208 J
ZTS-MW136	9/12/2024	FD	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	70.8	<158	<680	821,000	1,020	<88.4	<79.4	1,680,000	<50 UJ
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	11,300
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	13,700
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	11,100
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	12,200
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	13,400
ZTS-MW208	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	26.1 - 46.0	3,480	22,900	<6,800	1,130,000	<761	13,000	<794	2,030,000	7,770
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	3,970
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	4,540
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	5,610
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	15,600
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	4,730
ZTS-MW209	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	50.6 - 65.5	4,730	19,300	<6,800	1,530,000	<761	13,300	<794	2,900,000	4,420
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	18,700
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	17,900
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	18,300
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	17,900
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	18,600
LVWPS-MW102A	10/21/2022	N	BL02	2C	Downgradient	30	UMCf	47.0 - 66.6	3,700	35,400	<3,530	2,320,000	<640	6,230	<420	5,630,000	4,980
LVWPS-MW102B	10/21/2022	N	BL02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<30	<24,000	<7,060	12,000,000	<1,280	<960	<840	34,800,000	24,700
Post-Construction Performance Monitoring Results																	

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	18,700
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	18,400
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	19,100
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	19,200
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	21,500
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	22,900
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	24,700
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	21,100
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	19,100
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	18,800
ZTS-MW140	9/11/2024	N	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	6,210	57,000	<6,800	1,050,000	<761	23,500	<794	2,260,000	19,200
ZTS-MW140	9/11/2024	FD	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	6,210	56,800	<6,800	1,050,000	<761	23,300	<794	2,160,000	16,800
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	18,200
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	19,100
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	21,600
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	22,100
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	19,000
ZTS-MW119	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	15.0 - 25.0	6,410	56,700	<6,800	1,050,000	882 J	23,500	<794	2,140,000	17,100
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	17,100
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	17,600
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	17,700
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	17,900
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	18,400
ZTS-MW181	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6,530	56,600	<6,800	1,100,000	868 J	22,900	<794	2,140,000	17,100
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	18,300
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	18,100
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	18,900
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	17,900
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	18,900
ZTS-MW188	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	6,240	55,400	<6,800	1,010,000	892 J	23,200	<794	2,170,000	17,200
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	3,860
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	8,340
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	7,500
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	6,870
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	6,900
ZTS-MW204	9/11/2024	N	PM06	2C	Upgradient	-3	UMCf	30.3 - 40.0	1,360	6,050	<6,800	556,000	1,950	4,990	<794	935,000	1,610
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	11,400
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	12,600
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	14,500
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	15,600
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	14,900
ZTS-MW182	9/6/2024	N	PM06	2C	Center of Array	0	Alluvium	17.6 - 27.3	6,070	47,300	<6800 UJ	1,080,000	803 J	20,600 J-	<794	2,340,000	15,500
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	15,700
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	17,800
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	18,000
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+	19,100
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	17,900
ZTS-MW183	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	17.3 - 27.0	6,600	55,800	<6,800	1,070,000	<761	23,900	<794	2,150,000	18,200
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	14,700
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	16,900

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	22,800
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+	17,400
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	20,900
ZTS-MW187	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	15.3 - 25.0	6,330	52,700	<6,800	1,060,000	<761	23,400	<794	2,290,000	17,700
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	19,400
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	35,700
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	25,600
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	17,800
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	18,700
ZTS-MW141	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	14.5 - 24.5	6,030	61,800	<6,800	1,030,000	1,180 J	27,900	<794	2,520,000	<50
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	15,800
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	16,600
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	15,600
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	18,100
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	16,600
ZTS-MW142	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	16.0 - 26.0	6,630	58,100	<6,800	1,020,000	<761	27,200	<794	2,570,000	377
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	17,200
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	19,300
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	18,100
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+	19,200
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	18,100
ZTS-MW184	9/6/2024	N	PM06	2C	Downgradient	5	Alluvium	16.3 - 26.0	6,710	57,700	<6,800	1,080,000	<761	24,000	<794	2,500,000	18,200
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	249
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	490
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	450 J+
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	2,140
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	586
ZTS-MW205	9/9/2024	N	PM06	2C	Downgradient	5	UMCf	30.3 - 40.0	498	476	<6,800	460,000	864 J	<884	<794	689,000	18,500
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	18,100
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	18,900
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	18,100
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	19,100
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	19,300
ZTS-MW185	9/10/2024	N	PM06	2C	Downgradient	15	Alluvium	15.3 - 25.0	3,260	56,200	<680	1,060,000	525	20,700	<79.4	2,510,000	18,800
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	18,900
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	18,900
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	18,200
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	21,300
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	19,500
ZTS-MW186	9/10/2024	N	PM06	2C	Downgradient	25	Alluvium	15.3 - 25.0	5,460	56,000	<680	1,060,000	773	22,100	<79.4	2,500,000	19,100
LVWPS-MW102A	5/30/2023	N	PM01	2C	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	4,950
LVWPS-MW102A	8/23/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	4.05	7,910	29,300	2,160,000	<640	3,530	<420	5,030,000	4,980
LVWPS-MW102A	10/11/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	5,640	15,200	----	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	4,400	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	2C	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	5,540
LVWPS-MW102A	2/27/2024	N	PM04	2C	Downgradient	30	UMCf	47.0 - 66.6	4,190	44,100	<3,530	2,120,000	773 J	<480	<420	5,110,000	5,130
LVWPS-MW102A	5/23/2024	N	PM05	2C	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	5,620
LVWPS-MW102A	9/17/2024	N	PM06	2C	Downgradient	30	UMCf	47.0 - 66.6	4,810	21,500	<6,800	2,060,000	<761	20,400	<794	6,100,000	5,540
LVWPS-MW102B	5/26/2023	N	PM01	2C	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	485
LVWPS-MW102B	8/23/2023	N	PM02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<0.3	<48 UJ	<3,530	9,630,000	<640	<480	<420	33,100,000	4,730
LVWPS-MW102B	12/1/2023	N	PM03	2C	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	3,670

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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	CALC
									Perchlorate	Chlorate	Bromide	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	Nitrogen
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW102B	2/27/2024	N	PM04	2C	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	98 J
LVWPS-MW102B	5/23/2024	N	PM05	2C	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	157
LVWPS-MW102B	9/17/2024	N	PM06	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<80	<1,580	<6,800	11,700,000	<761	<884	<794	39,100,000	2,120
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	19,700
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	18,700
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	23,200
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	21,100
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	19,800
ZTS-MW189	9/10/2024	N	PM06	2C	Downgradient	55	Alluvium	12.8 - 23.0	5,010	55,800	<680	1,020,000	586	22,500	<79.4	2,510,000	19,300
General Vicinity																	
Pre-Construction Baseline Results																	
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	5,650
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	12,600
Post-Construction Performance Monitoring Results																	
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	5,520
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	5,740
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	5,970
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	6,950
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	6,850
ZTS-MW116	9/12/2024	N	PM06	NA	NA	NA	UMCf	33.0 - 48.0	4,610	15,200	<680	936,000	856	4,200	<79.4	2,680,000	8,700
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	11,600
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	13,100
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	12,000
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	8,670
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	12,600
ZTS-MW128	9/12/2024	N	PM06	NA	NA	NA	UMCf	42.0 - 52.0	5,810	40,000	<680	986,000	806	9,480	<79.4	2,350,000	11,500

Notes:
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 the sample.
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 may or may not be present in the sample.
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
< The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
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
PM05 Hydrogen samples cancelled with lab due to instrument failure.

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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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	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	11,300	15,300	<35	103,000	110	----	4,570,000	<14	<106
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	<1,400	15,500	<35	102,000	2.6	----	4,750,000	<14	10,200 J
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	2,560	15,000	<35	102,000	2.9	----	4,220,000	<14	1,230 J
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	<140	<50	<35 UJ	132,000	7.2	----	2,930,000	143	<106
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	3,590	15,300	<35	118,000	92	----	4,750,000	<14	1,270 J+
Post-Construction Performance Monitoring Results																	
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<700	15,000	89.6 J	110,000	42	----	5,120,000	16 J	1,200 J+
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<560	15,500	<35	114,000	<0.49	----	3,860,000	15 J	1,290 J
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<140	12,200	74.5 J	119,000	2.6	----	4,220,000 J-	35	1,170 J
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<1,400	12,900	98 J	123,000	<0.49	----	5,420,000	54	1,090
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<1,400	14,200	223 J+	125,000	----	----	5,520,000	90	1,180 J
ZTS-MW143	9/13/2024	N	PM06	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<560	12,000	138	118,000	----	-50	5,580,000	68	1,220 J
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<700	17,100	<35	110,000	40	----	4,590,000	26 J	970 J
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	3,700 J	14,000	<35	112,000	14.2	----	4,420,000	17 J	1,200 J
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<1,400	12,700	84 J	109,000	7.5	----	5,540,000	22 J	1,130 J
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<700	13,600	69.5 J	114,000	10.9	----	4,150,000	30 J	10,700
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<1,400	14,700	43.7 J	108,000	----	----	5,170,000	14 J	1,090 J
ZTS-MW124R	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<2,800	14,800	<35	116,000	----	30	5,070,000	14 J	1,130 J
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	282	363	135	126,000	32 J	----	2,970,000	82	392 J
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	<140	3,730	66.8 J	122,000	17.1	----	3,210,000	87	773 J
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	<140	3,740	248 J+	123,000	2.6	----	2,790,000 J	76	469 J
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	238 J	745	114	128,000	86.8 J	----	2,870,000	78	781 J
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	<140	3,410	86.7 J	124,000	----	----	3,080,000	69	653 J
ZTS-MW125	9/16/2024	N	PM06	1A	Upgradient	-8	UMCf	40.0 - 50.0	257 J+	56 J	82.7 J	118,000	----	80	724,000	<14	1,990 J
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<700	17,200	114	115,000	36	----	4,840,000	37	955 J
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<560	15,300	50.3 J	108,000	14	----	3,810,000	<14	1,350 J
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<1,400	14,700	154 J+	121,000	2.3	----	3,830,000	33	1,080 J
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<700	13,100	<35	109,000	11.1	----	5,490,000	25 J	1,400 J+
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<1,400	14,900	<35	109,000	----	----	3,250,000	<14	1,200 J-
ZTS-MW153	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<2,800	14,200	<35	117,000	----	10	5,280,000	17 J	1,110 J
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<560	14,700	<35	106,000	49 J	----	5,370,000	<14	1,150 J+
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<560 UJ	15,100	<35	104,000	2.3	----	4,140,000	<14	1,010 J
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<1,400	14,700	79.9 J	108,000	----	----	3,850,000	22 J	1,040 J
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<700	14,800	<35	103,000	5	----	5,220,000	25 J	11,700
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<1,400	15,300	<35	106,000	----	----	4,070,000 J-	<14	1,130 J-
ZTS-MW163	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<2,800	14,600	<35	107,000	----	90	5,320,000	19 J	1,270 J
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	3,210	234	35.6 J	28,100	<0.49	----	4,760,000	136	1,130 J+
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,060	697	<35	30,800	29.3 J-	----	3,990,000	<14	1,420 J
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,270 J+	937	<35	32,100	1.7	----	4,210,000	<14	970 J
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,090	727	122 J+	28,200	5.7 J	----	3,440,000	<14 UJ	1,030
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,160	2,010	61.7 J	38,300	----	----	4,820,000	<14	1,300 J
ZTS-MW150	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	24.3 - 34.0	586	2,080	40.1 J	42,500	----	0 U	4,470,000	<14	1,060 J+
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,580	<50	<35	29,900	30	----	4,750,000 J-	<14	1,060 J+
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,370	185	45.5 J	27,100	28.5 J-	----	4,170,000	<14	1,390 J
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,970	<2,500	57.4 J	25,500	<0.49	----	5,120,000	<14	935 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,030	<50	<35	23,100	4.2 J	----	5,110,000	<14 UJ	881 J
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	3,640	220	<35	30,400	----	----	5,060,000	19 J	1,180 J
ZTS-MW154	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,780	<50	52.6 J	27,500	----	220	4,670,000	<14	1,070
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,740	1,860	<35	39,700	2,100	----	4,070,000	<14	828 J
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,680	1,710	<35	39,200	----	----	3,860,000	<14	897 J
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,680	1,330	<35	30,500	2,400	----	5,130,000	<14 UJ	1,230 J
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,560	1,660	<35	30,200	----	----	4,620,000	<14 UJ	1,440 J
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,250	3,190	36.9 J	40,600	116	----	4,180,000	<14	1,110 J+
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,190	2,420	38.1 J	41,500	----	----	4,380,000	<14	1,120 J+
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,460	2,290	<35	35,600	184	----	5,270,000	<14 UJ	832 J
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,690	2,260	<35	32,200	----	----	5,220,000	<14 UJ	803 J
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,430	1,320	42.4 J	29,900	----	----	4,990,000	<14	1,220 J
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<140	819	113 J+	30,300	----	----	5,000,000	<14	1,070 J
ZTS-MW164	9/6/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,240	719	<35	28,900	----	30	5,260,000	<14	1,030 J+
ZTS-MW164	9/6/2024	FD	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,370	767	39 J	29,500	----	----	5,210,000	<14	1,010 J+
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	1,280	2,780	<35	78,300	34 J	----	5,110,000	31	877 J
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	870	5,750	93.8 J	121,000	42.6 J-	----	4,680,000	160	2,130 J
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	<140	8,850	122 J+	130,000	1.4	----	5,160,000	<14	1,140 J
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	2,730 J+	8,210	<175	111,000	2.7 J	----	6,310,000	<14	906 J
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	<1,400	12,100	<35	117,000	----	----	3,680,000 J-	<14	1,410 J
ZTS-MW151	9/11/2024	N	PM06	1A	Downgradient	5	Alluvium	24.3 - 34.0	<1,400	9,750	<35	133,000	----	-480	5,150,000	<14	1,120 J+
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	1,900 J+	1,180	<35	62,300	26	----	5,070,000	<14	1,110 J+
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,120	1,160	<35	63,200	----	----	4,860,000	<14	1,110 J+
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	<560	7,550	<35	103,000	18.6 J+	----	3,060,000 J	<14	1,230 J
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	<560	7,750	54.1 J	105,000	----	----	4,280,000 J	<14	1,290 J
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	156 J	5,750	51.5 J	104,000	1.4	----	5,720,000	<14	1,130 J
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	343	5,800	43.6 J	105,000	----	----	6,480,000	<14	1,250 J
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	<1,400	9,200	<35	96,300	2.7	----	5,530,000	<14	1,150 J
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	<1,400	9,200	<35	101,000	----	----	5,550,000	<14	17,600 J
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	<280	10,000	47.5 J	107,000	----	----	4,020,000	<14	1,350 J
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	<280	9,800	<35	109,000	----	----	4,250,000	<14	1,250 J
ZTS-MW155	9/10/2024	N	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	<1,400	8,250	<35	116,000	----	-120	5,470,000	<14	1,050 J
ZTS-MW155	9/10/2024	FD	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	<1,400	8,200	<35	117,000	----	----	5,450,000	<14	1,140 J
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	<140	<50	35.8	115,000	18	----	4,300,000	<14	500 J
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	<140	<50	<35	114,000	24.6 J+	----	2,710,000 J	17 J	464 J
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	462 J+	244	63 J	119,000	1.6	----	2,740,000 J	15 J	425 J
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	186 J	715	<35	122,000	<0.49	----	3,050,000	21 J	21,700
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	<560	5,940	37.8 J	112,000	----	----	3,550,000	19 J	657 J
ZTS-MW156	9/9/2024	N	PM06	1A	Downgradient	5	UMCf	43.8 - 53.5	407	14,400	98.4 J	118,000	----	1110	3,060,000	<14	357 J
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	1,410	4,520	35.5 J	73,200	40	----	5,360,000	<14	1,250 J+
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	<560	9,780	<35	98,300	<0.49	----	4,170,000	<14	1,130 J
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	<700	12,600	48.9 J	107,000	1.8 J	----	6,190,000	<14	1,170 J+
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	<1,400	12,900	44.1 J	104,000	<0.49	----	5,440,000	29 J	12,700 J-
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	<2,800	13,300	<700	103,000	----	----	5,230,000	<14	1,180 J
ZTS-MW165	9/6/2024	N	PM06	1A	Downgradient	5	Alluvium	22.3 - 32.0	<1,400	14,100	<35	107,000	----	60	5,520,000	<14	1,050 J+
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,680	2,970	184	67,000	45 J	----	5,470,000	159	968 J
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<560	8,400	59.6 J	94,400	11.4 J+	----	5,150,000	32	1,240 J
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<140	8,450	63.9 J	117,000	<0.49	----	5,460,000	33	1,140 J
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<700	7,450	61.4 J	103,000	2.7 J	----	5,970,000	19 J	931 J
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<1,400	12,400	47.9 J	104,000	----	----	3,960,000 J-	<14	1,400 J
ZTS-MW152	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	<1,400	11,100	<35	133,000	----	-170	5,640,000	17 J	1,080 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,770 J	1,280	68 J	62,900	32 J	----	8,910,000	51	1,120 J+
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,270	4,500	<35	82,300	2.1 J-	----	4,480,000	23 J	1,150 J
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,890 J+	4,520	54.4 J	91,500	1.7	----	4,200,000	<14	1,160 J+
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<1,400	10,100	83.7 J	97,600	2.4	----	5,110,000	<14	1,210
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<560	8,920	<35	105,000	----	----	5,200,000	<14	1,020 J
ZTS-MW157	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	<1,400	9,150	<35	122,000	----	200	5,580,000	<14	1,230 J
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	1,930	3,210	<35	94,200	32 J	----	5,440,000	30 J	1,020 J+
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<560	8,250	<35	105,000	24.8	----	5,260,000	<14 UJ	1,300 J
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<700	11,800	57 J	108,000	<0.49	----	6,030,000	16 J	1,130 J
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<1,400	15,200	<35	109,000	4	----	5,550,000	<14	1,210
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<560	11,800	38.7 J	113,000	----	----	5,410,000	<14	1,090 J
ZTS-MW162	9/9/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	<1,400	17,100	39.9 J	113,000	----	10	5,730,000	<14	1,140 J+
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	<700	13,500	100 J	111,000	47	----	4,560,000	42	1,360 J+
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	<700	14,600	178 J+	109,000	2.1	----	4,330,000	73	1,020 J-
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	<700	14,000	62.2 J	122,000	1.9 J	----	6,400,000	31	1,170 J
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	<1,400	12,100	35.4 J	115,000	<0.49	----	5,620,000	<14 UJ	24,100 J-
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	<700	14,900	35.3 J	113,000	----	----	5,190,000	19 J	1,240 J
ZTS-MW149	9/11/2024	N	PM06	1A	Downgradient	25	Alluvium	23.3 - 33.0	<1,400	13,000	37.6 J	117,000	----	-440	5,130,000	19 J	1,160 J+
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	2,820	3,240	81.4 J	79,900	52 J	----	5,330,000	48	1,230 J+
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	2,060	3,600	39.2 J	75,900	4.9	----	4,350,000	18 J	1,100 J-
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	<700	7,010	75 J	93,400	2.2 J	----	6,350,000	20 J	1,240 J
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	3,840 J+	8,510	41.8 J	82,700	4.5	----	5,610,000	<14	17,000 J-
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	<700	8,640	<35	96,000	----	----	5,270,000	14 J	1,050 J
ZTS-MW144	9/11/2024	N	PM06	1A	Downgradient	35	Alluvium	24.0 - 34.0	1,870 J	6,700 J-	56.7 J	95,500	----	-370	5,430,000	<14	1,160 J+
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	1,990	2,690	<35	69,600	18	----	4,860,000	<14	1,130
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	4,720	2,630	<35	71,500	4	----	4,140,000	<14	1,070 J
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	<560	7,230	72.7 J	96,400	----	----	4,090,000	<14	1,230 J
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	840 J	7,920	53.7 J	77,500	2	----	5,320,000	14 J	6,430
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	<280	8,770	<35	97,200	----	----	3,690,000	<14	1,110 J
ZTS-MW158	9/12/2024	N	PM06	1A	Downgradient	50	Alluvium	23.3 - 33.0	1,610 J	6,660	<35	104,000	----	130	5,660,000	<14	1,070 J
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	149 J	581	91.2 J	128,000	40	----	2,460,000 J	28 J	1,010 J+
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	<560	9,080	<35	104,000	2.9	----	3,990,000	40	1,120 J
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	<560	8,470	89.8 J	106,000	2.6	----	3,780,000	26 J	952 J
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	<700	9,900	46 J	104,000	2.9	----	4,630,000	34	6,570
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	<140	9,950	50 J	110,000	----	----	2,940,000	28 J	1,160 J
ZTS-MW159	9/12/2024	N	PM06	1A	Downgradient	50	UMCf	38.8 - 48.5	<1,400	7,400	65.6 J	117,000	----	20	4,140,000	23 J	1,010 J
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	386 J-	7,800	37.7 J	98,100	18	----	4,140,000	<14	1,130 J
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	<560	10,400	<35	98,200	3.8 J+	----	3,520,000	21 J	976 J
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	<1,400	10,500	78 J	101,000	1.9	----	4,460,000	29 J	1,110 J
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	<700	12,900	<35 UJ	96,900	3.7	----	3,690,000	27 J	1,350 J+
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	<1,400	12,900	38.1 J	101,000	----	----	4,250,000	<14	1,180 J
ZTS-MW160	9/13/2024	N	PM06	1A	Downgradient	100	Alluvium	23.3 - 33.0	<560 UJ	10,700	<35	102,000	----	100	5,440,000	24 J	1,040 J
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	1,090	3,550	74.4 J	72,700	35	----	4,950,000	17 J	1,120 J+
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	740 J	8,950	<35 UJ	90,400	2.6	----	5,350,000	20 J-	977 J
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	1,270 J	8,910	1,860 J	96,000	----	----	4,380,000	15 J-	952 J
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	<280	8,700	83.3 J	98,800	2	----	3,810,000	<14	1,070 J
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	<560	8,780	77 J	96,500	----	----	4,630,000	<14	1,070 J
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	<1,400	9,040	64.6 J	102,000	16.5	----	5,690,000	26 J	1,350 J
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	<1,400	8,890	61.9 J	100,000	----	----	5,590,000	31	23,600 J
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	<280	11,800	<35	102,000	----	----	3,860,000	<14	996 J
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	<280	11,900	<35	102,000	----	----	4,620,000	<14	40,900 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW161	9/13/2024	N	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	<560	10,000	54.1 J	107,000	----	100	5,340,000	16 J	1,010 J
ZTS-MW161	9/13/2024	FD	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	<560	9,850	<35	108,000	----	----	5,490,000	17 J	1,010 J
Between Test Area 1A and Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<140	3,730	<35	114,000	7.3	----	3,710,000	<14	<106
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<140	5,500	<35	127,000	10	----	5,180,000	<14	1,390 J+
Post-Construction Performance Monitoring Results																	
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	435 J+	260	35 J	138,000	17	----	700,000	<14	1,950 J-
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<140	156	<35	112,000	<0.49	----	3,480,000	44	602 J
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<140	<50	55.7 J	112,000	2.1	----	3,180,000 J-	35	582 J
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<140	435	<35 UJ	120,000	9.6	----	3,330,000	35	416 J
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<140	327	60.1 J	118,000	----	----	2,610,000	17 J	799 J
ZTS-MW145	9/16/2024	N	PM06	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	182 J	<50	90.8 J	113,000	----	80	3,270,000	27 J	370 J
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<140	2,780	59.3 J	129,000	41	----	3,960,000	42	1,310 J+
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	436 J+	<50	<35	130,000	2.4	----	3,660,000	31	718 J
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	163 J	<50	66.9 J	127,000	<0.49	----	5,570,000	28 J	221 J
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	243 J	<50	78.6 J	122,000	2.7	----	5,140,000	23 J	19,700 J-
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<140	<50	73 J	127,000	----	----	5,120,000	31	485 J
ZTS-MW146	9/12/2024	N	PM06	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	346 J+	<50	63.7 J	123,000	----	150	5,110,000	21 J	615 J
Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	3,950	17,500	<35	102,000	59	----	4,720,000	<14	1,270 J+
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	2,810	15,800	<35 UJ	110,000	2.5	----	4,720,000	<14	1,390 J+
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<1400 UJ	15,400	<35 UJ	110,000	2	----	5,300,000	<14	1,620 J+
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	<700	18,800	<35	118,000	27	----	5,550,000	<14	2,230 J+
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	20,400	18,100	<35	107,000	5.4	----	5,420,000	41	1,600
LVWPS-MW107A	10/24/2022	N	BL02	1B	Downgradient	50	Alluvium	24.8 - 34.5	<700	18,000	<35	106,000	13	----	5,610,000	<14	1,300
LVWPS-MW107B	10/21/2022	N	BL02	1B	Downgradient	50	UMCf	46.0 - 65.8	1,630	<50	<35	97,100	2 J	----	5,720,000	<14	<106
LVWPS-MW107C	10/24/2022	N	BL02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	638	<50	139	85,700	36	----	80,600,000	537	4,390
Post-Construction Performance Monitoring Results																	
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<700	28,000	<35	103,000	49	----	5,380,000	20 J	1,190 J+
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<700	18,600	<35	98,200	4.4	----	4,460,000 J	25 J	1,330 J
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<1,400	19,300	85.8 J	103,000	40.5	----	4,740,000	20 J	1,260 J
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	3,220	18,300	37.5 J	106,000	8.8	----	5,820,000	14 J	1,520 J
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<1,400	19,300	139	104,000	----	----	3,690,000	472	1,320 J-
ZTS-MW147	9/16/2024	N	PM06	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<2800 UJ	16,000	<35	106,000	----	30	5,770,000	15 J	1,350 J
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<560	12,000	35.2 J	115,000	34 J	----	5,650,000	40	1,100 J+
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<700	12,500	<35	118,000	4.3	----	6,760,000	24 J	1,210 J
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<700	14,200	64.5 J	113,000	2 J	----	4,260,000	37	1,090 J+
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	19,400 J-
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<2,800	12,700	<700	111,000	----	----	5,740,000	31	1,140 J
ZTS-MW126	9/13/2024	N	PM06	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<560	11,900	111	119,000	----	80	5,940,000	36	1,200 J
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<560	17,900	<35	108,000	45 J	----	5,730,000	19 J	1,510 J+
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<560	18,400	<35	110,000	6.4 J+	----	4,340,000	24 J	1,610 J
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	4,020	18,200	<35	111,000	69.6 J	----	3,470,000	28 J	1,310 J
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<1,400	18,100	39.3 J	112,000	13.7	----	5,390,000	18 J	20,900 J-
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<2,800	18,400	718 J	104,000	----	----	5,660,000	26 J	1,280 J
ZTS-MW127R	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<2,800	19,900	<35	117,000	----	20	5,790,000	25 J	1,310 J
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<700	18,100	<35	107,000	45	----	5,270,000	<14	1,500 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<560	18,600	<35	109,000	2.9 J+	----	4,220,000	24 J	1,540 J
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<700	18,400	54.4 J	103,000	26.4 J	----	4,700,000	26 J	1,110 J+
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<1,400	18,300	43.6 J	106,000	2.6	----	5,580,000	23 J	19,900 J-
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<1,400	18,000	565 J	106,000	----	----	5,760,000	20 J	1,340 J
ZTS-MW169	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<2,800	20,000	<35	110,000	----	40	5,680,000	17 J	1,410 J
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	<280	8,750	57.7 J	107,000	29	----	4,390,000	53	997 J
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	5,140	10,300	50.4 J	110,000	31.9	----	4,170,000	26 J	1,130 J
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	<700	11,000	56.4 J	102,000	4 J	----	3,760,000	32	980 J
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	<1,400	11,500	55.9 J	104,000	8.3	----	4,460,000	20 J	16,100 J-
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	<1,400	9,840	<350	104,000	----	----	4,690,000	30 J	911 J
ZTS-MW170	9/16/2024	N	PM06	1B	Upgradient	-8	UMCf	31.1 - 41.0	<2,800	18,100	<35	105,000	----	100	5,690,000	18 J	1,290 J
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,680 J	<50	37.5 J	22,300	2,500	----	4,430,000	<14	922 J
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,060	3,050	<35	41,800	1,480 J-	----	4,530,000	<14	1,620 J
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	7,100 J+	803	60.6 J	25,800	6,130 J	----	5,850,000	<14	1,140 J
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	10,500	1,780	<35	30,600	8,980 J	----	5,190,000	<14	949 J
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	5,290	1,820	137 J+	33,500	----	----	5,460,000	28 J	1,160 J
ZTS-MW166	9/6/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.8 - 29.5	6,640	2,530	35 J	27,800	----	500	5,300,000	<14	1,240 J+
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	5,600	9,090	39.2 J	36,200	2,400	----	5,630,000	53	1,460 J+
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	2,790 J+	4,160	<35	33,200	12.5 J-	----	4,500,000	<14	1,760 J
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	2,300	2,820	56.6 J	32,600	41	----	4,730,000	<14	1,200 J+
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<560	1,760	272 J	25,400	17.6 J	----	3,070,000	<14	1,370
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	4,470	3,010	78 J	27,600	----	----	3,410,000	<14	1,220 J
ZTS-MW171	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.3 - 29.0	3,370	2,700	<35	27,500	----	100	5,250,000	<14	1,370 J+
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	14,300	222	74 J	44,500	<0.49	----	5,400,000	<14	1,200 J+
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	6,260	<50	35.9 J	31,000	12,900 J-	----	5,150,000	<14	1,610 J
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	9,640	<50	71.7 J	41,200	4,140 J	----	5,460,000	<14	1,030 J
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	13,000 J-	<50	<35 UJ	32,400	20,200 J	----	5,340,000	16 J	885 J
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	11,700	<50	44.4 J	35,400	----	----	5,280,000	<14	1,220 J
ZTS-MW178	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	17.8 - 27.5	13,600	<50	66.1 J	37,200	----	39550	4,790,000	<14	1,170 J+
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	3,120	<50	46.6 J	22,200	<0.49	----	6,400,000	<14	1,380 J+
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	4,940	324	<35	19,800 J	25.8	----	4,140,000	<14	3,140 J
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	5,450	381	<35	39,400	12.4 J	----	5,800,000	<14	1,300 J+
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	6,450	1,270	<35	19,700 J	216	----	5,520,000	<14	1,040 J+
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	3,520	4,270	74.2 J	28,100	----	----	5,780,000	<14	1,150 J
ZTS-MW167	9/6/2024	N	PM06	1B	Downgradient	5	Alluvium	23.3 - 33.0	5,680	3,610	37.8 J	30,400	----	500	5,540,000	478 J+	1,180 J+
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	11,900	4,900	<35	24,900	2.5	----	4,780,000	<14	1,210
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	12,300	4,820	37.1 J	25,600	----	----	4,300,000	<14	1,170
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	7,200	6,800	<35	39,300	2.1	----	5,320,000	<14	1,550 J
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,980	6,940	<35	41,600	----	----	5,500,000	<14	1,500 J
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,390	171	<35	17,500 J	2.2	----	5,460,000	<14	1,130 J+
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,300	176	71.7 J	17,900 J	----	----	5,420,000	<14	1,140 J+
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,650	1,220	49.6 J	23,200	2.3	----	4,920,000	<14	1,270 J+
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	6,440	1,210	50.9 J	19,800 J	----	----	4,120,000	<14	1,220 J+
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	9,830	1,160	39.6 J	18,800 J	----	----	3,600,000	<14	1,080 J
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	9,070	1,070	<35	16,400 J	----	----	3,890,000 J-	<14	1,060 J
ZTS-MW172	9/11/2024	N	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	11,200	1,160	<35	19,400 J	----	220	5,340,000	<14	1,190 J+
ZTS-MW172	9/11/2024	FD	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	11,000	1,230	44.3 J	19,700 J	----	----	5,270,000	<14	1,160 J+
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	308	1,440	117	122,000	30	----	4,700,000	186	1,750 J+
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	526	1,470	432	119,000	19.8	----	2,280,000	153	2,390 J
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	729 J+	<50	266 J+	132,000	21.4	----	3,490,000	227	3,420
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	<140	3,450	97.4 J	106,000	3.8	----	4,370,000	79	543 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	<140	4,410	77.9 J	104,000	----	----	2,720,000 J-	59	837 J
ZTS-MW173	9/12/2024	N	PM06	1B	Downgradient	5	UMCf	33.3 - 43.0	240 J	3,600	78.4 J	107,000	----	640	4,290,000	51	541 J
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	16,600	1,120	140	38,100	68	----	7,200,000	<14	1,250 J+
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	13,100	3,840	88.2 J	22,100	2.9 J-	----	4,710,000	<14	1,480 J
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	11,100	4,950	61 J	26,200	2.6	----	5,920,000	<14	1,090 J
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	7,800	6,080	66.5 J	30,600	3.7	----	5,560,000	<14	1,270 J+
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	8,590	1,120	<35	22,500	----	----	5,340,000	14 J	1,210 J
ZTS-MW179	9/10/2024	N	PM06	1B	Downgradient	5	Alluvium	18.3 - 23.0	10,500 J-	533	<35	19,300 J	----	-130	5,420,000	<14	1,190
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	7,410	3,760	40.6 J	31,800	22	----	6,500,000	<14	1,350 J+
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	6,260	4,740	69.4 J	33,100	19.5	----	3,400,000	<14	1,380 J
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	6,080	3,020	63.4 J	30,400	2.9	----	3,940,000	<14	1,250 J+
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	8,380	4,490	<35	28,800	7.4	----	5,200,000	<14	1,110
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	8,060	928	39.7 J	22,100	----	----	5,590,000	<14	1,260 J
ZTS-MW168	9/6/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	11,700	457	46.9 J	19,300 J	----	80	5,540,000	878 J+	1,150 J+
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	4,140	8,400	73.9 J	44,200	----	----	6,200,000	32	1,500 J+
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	8,360	3,220	36.8 J	25,200	19.9	----	2,950,000	<14	1,320 J+
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	6,460	94 J	55.6 J	18,000 J	2.9	----	3,740,000	<14	1,220 J+
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	6,330	2,960	<35	21,400	2.3	----	5,410,000	<14	1,170
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	6,620	728	<700	17,600 J	----	----	5,470,000	<14	1,200 J
ZTS-MW174	9/11/2024	N	PM06	1B	Downgradient	15	Alluvium	19.8 - 29.5	7,740	850	45.1 J	16,500 J	----	-590	5,290,000	<14	1,230 J+
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	4,950	1,180	129	33,800	40	----	6,700,000	32	1,410 J+
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	6,900	939	59.2 J	23,800	<0.49 UJ	----	3,190,000	16 J	1,470 J
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	6,910	449	82.1 J	21,500	2.6	----	4,370,000	<14	1,210 J+
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	7,840	2,500	<35	20,500	5.9	----	5,400,000	<14	1,180
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	8,480	2,930	39.9 J	26,000	----	----	4,630,000	<14	1,140 J
ZTS-MW177	9/10/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	10,800 J-	2,070	<35	24,900	----	20	5,440,000	<14	1,160 J+
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	<700	18,500 J	<35	102,000	34	----	6,300,000	<14	1,440 J+
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	<700	12,300 J	47.8 J	100,000	----	----	5,130,000 J-	<14	1,500 J+
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	<700	18,600	<35	105,000	2.2	----	5,880,000	24 J	1,370 J-
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	<700	19,100	<35	105,000	----	----	5,320,000	23 J	1,630 J-
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<700	16,200	45.3 J	105,000	3.1	----	4,390,000 J	<14	1,200 J+
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<700	16,100	44.8 J	105,000	----	----	6,310,000 J	23 J	1,240 J
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<700	15,800	48.2 J	104,000	2.7	----	5,960,000	<14	1,420 J+
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<1,400	15,900	39.2 J	103,000	----	----	5,970,000	<14	1,340 J+
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	<2,800	18,500	<700	107,000	----	----	5,920,000	20 J	1,340 J
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	<2,800	18,900	<700	80,700	----	----	5,690,000	20 J	21,400 J
ZTS-MW180	9/10/2024	N	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	<2,800	20,200	<35	108,000	----	80	5,690,000	<14	1,290
ZTS-MW180	9/10/2024	FD	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	<2,800	20,000	<35	108,000	----	----	5,670,000	<14	1,290
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	4,480	9,100	53.8 J	45,700	39	----	6,600,000	16 J	1,160 J+
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	6,720	3,660	<35	28,200	13.8 J-	----	4,070,000	21 J	1,420 J
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	6,300 J+	931	48.6 J	24,500	----	----	5,720,000	15 J	1,100 J
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	7,070 J+	1,820	<35	20,800	305	----	5,300,000	<14 UJ	938 J
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	8,930	1,300	319	53,200	----	----	5,590,000	37	1,100 J
ZTS-MW148	9/12/2024	N	PM06	1B	Downgradient	35	Alluvium	22.0 - 32.0	8,270	1,790	<35 UJ	19,100 J	----	-60	5,440,000	<14	1,130 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
LVWPS-MW107A	5/23/2023	N	PM01	1B	Downgradient	50	Alluvium	24.8 - 34.5	6,360	3,010	<35	32,600	<0.49	----	3,490,000	<14	1,120
LVWPS-MW107A	8/24/2023	N	PM02	1B	Downgradient	50	Alluvium	24.8 - 34.5	7,270	1,590	<35	23,500	11.9	----	5,150,000	<14	1,100 J-
LVWPS-MW107A	11/30/2023	N	PM03	1B	Downgradient	50	Alluvium	24.8 - 34.5	7,810	1,030	77.5 J	21,800	1.7	----	5,320,000	16 J	1,100 J+
LVWPS-MW107A	2/22/2024	N	PM04	1B	Downgradient	50	Alluvium	24.8 - 34.5	7,950	1,420	121	40,500	2.3	----	4,460,000	<14	1,230 J+
LVWPS-MW107A	5/28/2024	N	PM05	1B	Downgradient	50	Alluvium	24.8 - 34.5	7,310	3,920	57.9 J	24,600	----	----	3,130,000	<14	1,290 J-
LVWPS-MW107A	9/12/2024	N	PM06	1B	Downgradient	50	Alluvium	24.8 - 34.5	9,690	2,700	50.3 J	23,800	----	10	5,420,000	<14	1,080 J
LVWPS-MW107B	5/23/2023	N	PM01	1B	Downgradient	50	UMCf	46.0 - 65.8	423	<50	38.9 J	94,400	7.9	----	4,210,000	<14	576 J
LVWPS-MW107B	8/24/2023	N	PM02	1B	Downgradient	50	UMCf	46.0 - 65.8	765	386	49.9 J	80,900	4.3	----	2,830,000	52	1,070 J-
LVWPS-MW107B	12/1/2023	N	PM03	1B	Downgradient	50	UMCf	46.0 - 65.8	428	675	229 J+	67,800	2.4	----	1,430,000	83	1,180 J
LVWPS-MW107B	2/23/2024	N	PM04	1B	Downgradient	50	UMCf	46.0 - 65.8	420	<50	81.2 J	111,000	5.7	----	5,880,000	18 J	721 J
LVWPS-MW107B	5/24/2024	N	PM05	1B	Downgradient	50	UMCf	46.0 - 65.8	300 J+	<50	64.5 J	98,300	----	----	6,230,000	19 J	370 J
LVWPS-MW107B	9/12/2024	N	PM06	1B	Downgradient	50	UMCf	46.0 - 65.8	375 J+	<50	<35	96,500	----	-80	6,030,000	<14	508 J
LVWPS-MW107C	5/23/2023	N	PM01	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<140	<50	84 J	92,800	11	----	53,400,000	465	3,740
LVWPS-MW107C	8/24/2023	N	PM02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<140	<50	74.2 J	118,000	10.8	----	92,900,000	359	4,780 J-
LVWPS-MW107C	12/1/2023	N	PM03	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	4,840	<50	475 J+	98,800	3.9	----	64,500,000	451	4,240 J
LVWPS-MW107C	2/23/2024	N	PM04	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	229 J	89 J	155 J+	96,600	2.6	----	80,300,000	526	4,520 J
LVWPS-MW107C	5/28/2024	N	PM05	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	212 J	<50	138	100,000	----	----	49,100,000	<14	4,240 J-
LVWPS-MW107C	9/13/2024	N	PM06	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	624 J+	<50	124	99,800	----	-110	76,000,000	486	4,040 J-
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	678	8,240	91.5 J	57,900	<0.49	----	5,380,000	31	1,270 J+
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	2,720	1,510	<35	35,300	3.7	----	5,730,000	22 J	1,140 J
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	4,030 J+	520	94.8 J	29,900	1.9	----	5,640,000	20 J	1,120 J
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	4,880	373	36.9 J	27,100	13.7	----	5,290,000	<14	1,150 J+
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	5,560	2,380	<35	25,200	----	----	3,390,000	<14	1,150 J-
ZTS-MW175	9/12/2024	N	PM06	1B	Downgradient	100	Alluvium	19.8 - 29.5	6,970 J+	3,160	35.3 J	24,100	----	90	5,510,000	<14	1,190 J
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	<140	6,720	52.3 J	58,900	<0.49	----	5,580,000	20 J	1,200 J+
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	1,390 J+	3,240	77.8 J	46,300	4.3	----	5,670,000	20 J	1,190 J
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	2,870	1,820	78.7 J	38,000	2	----	5,880,000	19 J	1,140 J
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	3,260 J+	3,690	47.6 J	44,300	2	----	5,480,000	18 J	9,920
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	2,730 J	3,930	<35 UJ	41,400	----	----	5,560,000	<14	1,230 J
ZTS-MW176	9/13/2024	N	PM06	1B	Downgradient	150	Alluvium	19.8 - 29.5	4,420	4,160	52.7 J	44,200	----	-110	5,540,000	<14	1,190 J
Test Area 2A																	
Pre-Construction Baseline Results																	
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<700	18,900	<35	106,000	21	----	3,540,000	90	1,690 J+
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	<700	18,900	<35	118,000	7 J+	----	5,830,000	<14	2,120 J
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	<700	18,800	<35	117,000	30	----	4,720,000	114	1,840 J+
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	<700	18,600	<35	111,000	15	----	6,030,000	40	1,740 J+
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<280	18,100	<35	101,000	0.85 J	----	4,650,000	<14	1,640 J-
Post-Construction Performance Monitoring Results																	
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<700	18,900	43.2 J	107,000	43	----	5,930,000	26 J	2,010 J+
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<700	18,200	<35	104,000	21.3	----	5,740,000	25 J	1,270 J-
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<1,400	19,800	67.9 J	108,000	1.9	----	4,180,000	43	1,360 J
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<1,400	18,500	46.3 J	105,000	8.7	----	5,720,000	26 J	24,100
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<1,400	20,000	<35	104,000	----	----	5,720,000	33	1,220 J
ZTS-MW137	9/16/2024	N	PM06	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<2,800	20,000	48 J	108,000	----	20	5,850,000	20 J	1,260 J
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<700	18,800	36.4 J	114,000	66 J	----	5,560,000	34	1,630 J+
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<700	19,000	53.4 J	115,000	----	----	5,790,000	36	1,670 J+
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<700	19,600	40 J	110,000	7.5	----	5,480,000	22 J	1,410 J-
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<700	18,700	<35	110,000	----	----	5,810,000	22 J	1,350 J-
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<1,400	19,700	86.2 J	114,000	4.6	----	4,180,000	22 J	1,410 J
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<1,400	19,700	66.9 J	116,000	----	----	4,350,000	20 J	1,400 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<1,400	19,100	57.9 J	112,000	24.2	----	5,850,000	15 J	25,800
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<1,400	18,200	61.4 J	112,000	----	----	5,950,000	25 J	25,700
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<2,800	19,700	43.3 J	109,000	----	----	6,060,000	24 J	1,390 J
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<2,800	19,900	<35	108,000	----	----	5,820,000	36	1,430 J
ZTS-MW118	9/16/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<2,800	19,900	<35	117,000	----	40	5,890,000	29 J	1,400 J
ZTS-MW118	9/16/2024	FD	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<2,800	19,700	<35	116,000	----	----	5,820,000	16 J	1,260 J
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<1,400	19,400	67.1 J	109,000	67 J	----	5,650,000	31	1,520 J+
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<700	18,700	<35	108,000	2.5	----	5,100,000	55 J-	1,310 J
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<1,400	19,500	78.4 J	109,000	1.6	----	4,840,000	35	1,310 J
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<1,400	19,400	37.6 J	106,000	2.3	----	5,800,000	<14	1,330 J-
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<1,400	19,100	416 J	111,000	----	----	5,930,000	39	1,300 J
ZTS-MW190	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<2,800	19,700	928 J	109,000	----	150	6,010,000	21 J	1,480 J
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<560	19,400	41.4 J	106,000	26	----	5,410,000	14 J	1,420 J+
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<700	19,200	42.8 J	107,000	8.2	----	5,380,000	39	1,440 J
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<1,400	19,400	<35	108,000	<0.49	----	6,340,000	175	470 J
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<700	19,200	45 J	108,000	4.2	----	5,650,000	35	1,650 J+
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<2,800	19,000	1,360 J	111,000	----	----	6,060,000	39	1,390 J
ZTS-MW196	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<2,800	19,000	1,040 J	111,000	----	180	5,910,000	19 J	1,430 J
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	<700	16,200	97.8 J	105,000	27	----	5,240,000	35	510 J
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	<560	16,700	61.2 J	105,000	13 J+	----	4,240,000	45	1,240 J
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	<1,400	13,200	90 J	106,000	5.3	----	3,260,000	40	986 J
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	<700	11,100	78.8 J	108,000	2.3	----	3,200,000	45	24,100
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	<1,400	17,100	598 J	103,000	----	----	5,650,000	48	1,140 J
ZTS-MW202	9/16/2024	N	PM06	2A	Upgradient	-3	UMCf	28.8 - 38.5	<2,800	15,100	63.8 J	107,000	----	200	5,010,000	28 J	1,110 J
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	<700	16,800	63 J	93,000	8.2	----	5,950,000	17 J	1,620 J+
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	<700	19,200	<35	101,000	24.3 J-	----	5,250,000	<14	2,020 J
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	<1,400	20,200	65.7 J	109,000	14.8	----	6,040,000	<14	1,340 J
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	<1,400	19,800	<350	105,000	2.6 J	----	5,480,000	<14	1,080 J+
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	<560	19,800	39.7 J	108,000	----	----	4,210,000 J-	<14	1,570 J
ZTS-MW192	9/17/2024	N	PM06	2A	Center of Array	0	Alluvium	14.3 - 24.0	<2,800	19,100	1,330 J	108,000	----	520	5,880,000	21 J	1,410 J
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	5,290	3,970	144	41,900	<0.49	----	5,210,000	22 J	1,240 J+
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	5,460	4,290	62.4 J	39,200	22,500 J+	----	4,270,000	28 J	1,390 J+
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	5,850	6,200	87.9 J	49,000	2,400 J	----	3,980,000	<14	1,320 J+
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	2,550 J+	7,730	44.5 J	57,200	245	----	5,330,000	<14	1,370
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	5,790	6,120	51.8 J	42,900	----	----	5,180,000	<14	1,190 J
ZTS-MW191	9/18/2024	N	PM06	2A	Downgradient	1	Alluvium	14.8 - 24.5	6,580	6,100	41.8 J	52,000	----	560	5,440,000	<14	1,260
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	<700	17,800	349	111,000	1,400	----	5,500,000	62	1,340 J+
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	<700	17,600	75.6 J	96,400	205 J-	----	4,600,000	15 J	1,930 J
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	1,280 J+	19,500	35.8 J	104,000	9.6	----	3,430,000	15 J	1,410 J+
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	<700	19,000	<35	104,000	2	----	5,670,000	14 J	1,360
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	<560	18,200	63.7 J	97,200	----	----	4,360,000	<14	1,400 J
ZTS-MW195	9/19/2024	N	PM06	2A	Downgradient	1	Alluvium	14.3 - 24.0	<2,800	14,900	114	110,000	----	140	5,670,000	<14	1,380 J
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	<700	19,100	52.5 J	103,000	23	----	5,280,000	45	1,190 J+
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	<700	19,700	50.1 J	100,000	34.1 J-	----	4,880,000	<14	1,850 J
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	<1,400	20,600	42.4 J	106,000	11.1	----	6,050,000	32	1,320 J
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	<700	20,200	<35	107,000	6.8	----	5,350,000	29 J	1,340
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	<560	20,400	49.9 J	102,000	----	----	3,840,000	15 J	1,640 J
ZTS-MW138	9/17/2024	N	PM06	2A	Downgradient	5	Alluvium	14.0 - 24.0	<2,800	18,800	2,220 J+	111,000	----	60	5,910,000	38	1,300 J
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	<700	16,300	92.6 J	94,600	32	----	5,150,000	51	1,400 J+
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	<560	18,700	65.7 J	96,100	37 J-	----	5,880,000	32	1,660 J
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	250 J	18,000	63.5 J	96,200	7	----	3,780,000	29 J	1,510 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	<1,400	19,200	38.3 J	106,000	2.1	----	5,630,000	28 J	1,300
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	<560	18,200	61.5 J	96,200	----	----	3,970,000 J-	16 J	1,420 J
ZTS-MW139	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.0 - 23.0	<2,800	16,200	77 J	103,000	----	150	5,760,000	30 J	1,340
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	<700	16,900	71.8 J	92,900	28 J	----	5,330,000	53	1,480 J+
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	<700	18,300	70.1 J	99,900	----	----	5,130,000	53	1,210 J
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	<700	20,300	63.3 J	99,600	27.6 J+	----	4,050,000 J	42	1,550 J
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	<700	18,700	39.5 J	99,600	----	----	2,910,000 J	45	1,570 J
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	<700	18,800	97.7 J	103,000	11.7	----	6,080,000	44	1,250 J+
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	<700	18,400	69 J	107,000	----	----	6,420,000	46	1,320 J
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	<2,800	18,800	59.9 J	105,000	<0.49	----	5,190,000	29 J	1,460 J-
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	<1,400	18,400	48.8 J	106,000	----	----	5,260,000	40	1,310 J-
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<700	18,800	40.3 J	102,000	----	----	5,690,000	24 J	1,330 J
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<700	19,100	64.2 J	103,000	----	----	5,650,000	25 J	1,320 J
ZTS-MW193	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	<2,800	16,900	<35	109,000	----	30	5,760,000	25 J	1,320
ZTS-MW193	9/18/2024	FD	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	<2,800	16,500	<35	110,000	----	----	5,810,000	22 J	1,160
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	<700	14,400	80.2 J	96,900	54 J	----	4,710,000	48	1,720 J+
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	<560	14,900	<35	96,700	2.1	----	5,190,000	34 J+	1,620 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	<700	11,500	80.1 J	103,000	2.9	----	5,030,000	53	1,060 J+
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	<1,400	8,180	83.1 J	110,000	<0.49	----	3,680,000	69	1,550 J-
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	<2,800	13,600	1,610 J	96,500	----	----	5,490,000	39	1,120 J
ZTS-MW203	9/17/2024	N	PM06	2A	Downgradient	5	UMCf	28.3 - 38.0	<2,800	13,200	3,740 J+	99,400	----	-20	5,480,000	44	1,270 J
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	<700	19,100	81.6 J	109,000	33 J	----	5,810,000	76	1,460 J+
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	<700	20,500	63.9 J	99,000	31.2 J+	----	4,480,000	51	1,530 J
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	1,320 J+	21,000	64.7 J	109,000	3	----	3,650,000	36	2,260 J+
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	<1,400	18,300	71.4 J	101,000	<0.49	----	5,050,000	40	1,440 J-
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	<700	20,700	84.8 J	104,000	----	----	5,550,000	38	1,370 J
ZTS-MW194	9/18/2024	N	PM06	2A	Downgradient	15	Alluvium	17.8 - 22.5	<2,800	16,800	42 J	108,000	----	260	5,730,000	36	1,260
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	<700	18,700	80.1 J	109,000	33	----	5,670,000	35	1,400 J+
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	<700	20,300	<35	105,000	2.1 J+	----	4,740,000	33	1,670 J+
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	<700	19,000	83.7 J	108,000	10.7	----	6,240,000	39	1,290 J
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	<1,400	18,100	58.7 J	104,000	<0.49	----	5,570,000	<14	1,230 J-
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	<700	19,600	40.1 J	105,000	----	----	5,660,000	20 J	1,310 J
ZTS-MW197	9/17/2024	N	PM06	2A	Downgradient	55	Alluvium	12.8 - 22.5	<2,800	20,500	1,420 J	113,000	----	-30	6,010,000	24 J	1,520 J
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<700	19,200	43.1 J	103,000	37	----	5,370,000	22 J	1,540 J+
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<700	18,400	<35	96,600	2.1	----	5,570,000	20 J	1,370 J-
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<700	16,600	66.3 J	98,000	2.5	----	5,760,000	21 J	1,360 J+
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<1,400	14,700	41.7 J	89,700	7.7	----	5,970,000	<14	20,200
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<2,800	18,700	<700	104,000	----	----	5,970,000	19 J	1,320 J
ZTS-MW113	9/19/2024	N	PM06	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<2,800	12,800	47.8 J	103,000	----	90	5,800,000	<14	1,870 J-
Test Area 2B																	
Pre-Construction Baseline Results																	
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	<140	2,020	<35	85,900	35	----	3,020,000 J-	73	1,180 J+
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	<140	<50	<35	109,000	230	----	2,420,000	64	<106
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<140	<50	<35	108,000	230	----	2,460,000	63	<106
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	<1,400	18,400	<35	100,000	<0.49	----	4,580,000 J-	<14	1,740 J+
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	<140	2,640	<35	90,500	100	----	5,970,000	62	<106
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	2,160	<35	117,000	28	----	2,950,000	61	<106
Post-Construction Performance Monitoring Results																	

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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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	<140	2,660 J-	55.5 J	89,400	160	----	4,270,000	24 J	517 J
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	<140	2,820	<35	89,000	2	----	5,480,000	51	430 J
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	<140	2,900	94.9 J	95,000	1.9	----	4,400,000	53	709 J
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	<140	2,970	63.5 J	88,000	14.8	----	6,200,000	21 J	19,400
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	<140	3,260	42.7 J	88,900	----	----	6,380,000	49	379 J
ZTS-MW133	9/17/2024	N	PM06	2B	Upgradient	-9	UMCf	54.0 - 69.0	<280 UJ	3,240 J+	332 J+	88,700	----	-130	6,840,000	32	389 J
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	403	<50	83.6 J	98,600	38 J	----	4,000,000	38	765 J
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<140	<50	43.3 J	71,500	6	----	4,060,000	67	524 J
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	485 J+	<50	82.1 J	60,000	5.3	----	3,130,000	31	458 J
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	<140	<50	75.1 J	58,100	4	----	4,860,000	20 J	5,470 J-
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	<140	<50	39.8 J	57,400	----	----	5,200,000	38	408 J
ZTS-MW117	9/17/2024	N	PM06	2B	Upgradient	-2	UMCf	40.5 - 55.5	<140	<50	167 J+	56,500	----	60	5,700,000	22 J	623 J
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	<700	16,000	43.4 J	102,000	37 J	----	6,400,000	224	1,410 J+
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	<700	17,000	<35	96,300	<0.49	----	5,690,000	34	1,370 J-
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	1,200 J	15,600	52.1 J	96,500	1.5	----	4,210,000	29 J	1,180 J+
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	<1,400	6,570	71.5 J	84,700	4.3	----	5,400,000	42 J-	15,000 J-
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	<140	16,300	<35	98,100	----	----	5,540,000	33	1,190 J
ZTS-MW134	9/19/2024	N	PM06	2B	Upgradient	-2	UMCf	26.0 - 36.0	<2,800	12,600	51.7 J	97,700	----	40	5,620,000	14 J	1,210 J
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	410 J+	2,040	334	87,700	3.8	----	5,610,000	141	1,030 J+
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	<140	3,460	109	72,900	<0.49 UJ	----	5,190,000	39	1,300 J
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	285	115	83.4 J	64,500	1.9	----	4,600,000	60	591 J
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	197 J	<50	<35	58,500	2.2 J	----	4,900,000	<14 UJ	218 J
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	<140	460	<35	58,400	----	----	561,000	38	657 J
ZTS-MW198	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	26.1 - 46.0	357 J+	463	83.7 J	60,700	----	20	5,890,000	32	418 J
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	233 J	61.4 J	169	26,900	4,700	----	4,440,000	<14	838 J
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	321 J+	73.2 J	137	27,300	----	----	4,140,000	<14	577 J
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	<140	61.6 J	42.3 J	16,800 J	12,200 J-	----	6,000,000	<14	901 J
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	321 J+	<50	83.6 J	25,400	3,340	----	6,120,000	40	619 J
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	408 J+	<50	77.6 J	18,300 J	1,710	----	6,190,000	<14	302 J
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	328	<50	47.6 J	15,400 J	----	----	5,190,000	<14	565 J
ZTS-MW200	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	886 J+	<50	173 J+	28,000	----	9690	6,210,000	<14	608 J
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	488	287	322	100,000	32	----	5,100,000	81	833 J
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	190 J	1,250	155	84,800	13.7 J+	----	3,390,000	134	717 J
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	239 J	1,340	121 J+	85,700	2.8	----	5,220,000	256	483 J
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	<140	1,550	119 J+	82,900	3.7	----	5,300,000	82	474 J
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	<140	1,810	83.2 J	75,600	----	----	4,180,000	63	627 J
ZTS-MW201	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	27.1 - 47.0	294 J+	3,020	69.3 J	87,900	----	190	6,580,000	84	460 J
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	556	698	1,480	105,000	11	----	4,920,000 J-	<14	735 J
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	<140	2,030	304	90,600	14.4 J+	----	4,440,000	244	658 J
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	141 J	2,070	248 J+	93,000	2.8	----	6,630,000	100	431 J
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	<140	2,100	141	91,100	3.2	----	5,980,000	139	355 J
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	<140	2,600	166	88,200	----	----	4,110,000	118	573 J
ZTS-MW206	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	259 J+	2,510	504	91,900	----	130	6,550,000	146	435 J
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	446	2,660	1,480	94,200	37	----	4,620,000	1,570	1,070 J+
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	215 J	3,880	146	86,800	19.3 J+	----	4,920,000 J	146	665 J
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	<140	3,730	329 J+	88,800	31.8	----	6,380,000	<14	513 J
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	<140	4,030	<35	92,200	27.4 J	----	6,790,000	86	201 J
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	<140	4,340	93.1 J	91,800	----	----	6,470,000	69	477 J
ZTS-MW199	9/19/2024	N	PM06	2B	Downgradient	5	UMCf	50.1 - 65.0	<280	3,650 J-	80.5 J	89,800	----	130	6,550,000	54	530 J
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	241 J	1,190 J	189	123,000	14	----	4,700,000 J	165	1,150 J+
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	230 J	1,710 J	170	123,000	----	----	3,420,000 J	160	1,270 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	462 J+	401	151	111,000	19.7 J-	----	3,400,000	92 J+	1,130 J
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	405	383	106	112,000	----	----	3,200,000	93 J+	863 J
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	629 J+	400	99.8 J	113,000	1.9	----	2,070,000 J	74	824 J
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	559 J+	443	110 J+	112,000	----	----	3,020,000 J	70	953 J
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	<140	337	63.6 J	103,000	2.2	----	4,130,000	44	727 J
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	<140	329	57 J	102,000	----	----	3,780,000	43	503 J
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	<140	375	74.5 J	97,900	----	----	4,300,000	57	564 J
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	<140	391	56.9 J	97,500	----	----	4,340,000	57	506 J
ZTS-MW207	9/17/2024	N	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	222 J	1,520 J+	83.3 J	95,600	----	360	5,330,000	65	640 J
ZTS-MW207	9/17/2024	FD	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	935 J	1,530 J+	77.1 J	100,000	----	----	5,210,000	62	657 J
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	373	3,470	670	96,500	41	----	6,210,000	676	647 J
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	<140	4,020	243 J+	88,800	3.8	----	5,920,000	263	480 J
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	<140	4,350	178 J	89,200	<0.49	----	6,850,000	28 J	1,300 J+
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	<140	4,680	175	89,200	<0.49	----	6,730,000	197	393 J
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	<140	4,830	121	87,500	----	----	6,590,000	134	398 J
ZTS-MW135	9/17/2024	N	PM06	2B	Downgradient	7	UMCf	54.0 - 69.0	<140	4,810	146	96,900	----	80	7,500,000	132	550 J
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	257 J	76.5 J	111,000	28	----	2,870,000	43	369 J
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	414 J	83.3 J	110,000	----	----	2,930,000	49	999 J
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	81.7 J	44 J	110,000	2.3	----	2,840,000	33 J-	525 J
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	269 J+	87.3 J	39.6 J	115,000	----	----	3,100,000	41 J-	472 J
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	560 J+	<50	80 J	102,000	2.6	----	2,690,000 J	24 J	710 J
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	442 J+	<50	70.9 J	99,900	----	----	2,680,000	25 J	444 J
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	<50	52.8 J	104,000	<0.49	----	3,110,000	<14	286 J
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	<50	44.5 J	104,000	----	----	3,090,000	21 J	238 J
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140 UJ	566	66.6 J	102,000	----	----	2,730,000	18 J	614 J
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	526 J	572	66.8 J	103,000	----	----	2,960,000	20 J	577 J
ZTS-MW136	9/12/2024	N	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	208 J	<50	51.3 J	102,000	----	190	3,320,000	19 J	388 J
ZTS-MW136	9/12/2024	FD	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<140	<50	50.7 J	105,000	----	----	3,350,000	18 J	444 J
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	<700	11,300	104	100,000	42	----	5,300,000	114	891 J
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	<560	13,700	<35	97,400	7.9 J-	----	3,350,000	44 J+	913 J
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	<140	11,100	73.8 J	102,000	3.3	----	5,370,000	44	952 J
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	<1,400	10,600	50.4 J	100,000	<0.49	----	4,900,000	14 J	976 J
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	<1,400	13,400	519 J	99,600	----	----	5,220,000	42	1,010 J
ZTS-MW208	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	26.1 - 46.0	1,420 J+	6,350	55.2 J	99,700	----	80	5,660,000	35	624 J
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	172 J	3,800	286	94,200	51 J	----	6,400,000	380	646 J
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	<140	4,540	138	90,800	4.4 J-	----	6,550,000	151	464 J
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	450 J+	5,160	123 J+	89,400	<0.49	----	5,530,000	109	624 J
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	<140	4,800	96.9 J	90,200	2.2	----	6,300,000	109	389 J
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	<140	4,730	69 J	89,600	----	----	6,520,000	95	492 J
ZTS-MW209	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	50.6 - 65.5	<280	4,420	83.2 J	94,900	----	30	7,750,000	84	577 J
Test Area 2C																	
Pre-Construction Baseline Results																	
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<700	18,700	<35	106,000	6 J+	----	5,590,000	139	1,670 J+
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	<560	17,900	<35	109,000	1.7 J	----	3,650,000	<14	1,260 J+
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<700	18,300	<35	103,000	1.6 J	----	3,590,000	<14	1,760 J+
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	<280	17,900	<35	111,000	8.8	----	4,950,000	39	1,330 J-
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	<700	18,600	<35	102,000	----	----	5,500,000	58	1,900 J+
LVWPS-MW102A	10/21/2022	N	BL02	2C	Downgradient	30	UMCf	47.0 - 66.6	337 J	4,640	132 J	89,000	1.8 J	----	10,600,000	132	1,050 J+
LVWPS-MW102B	10/21/2022	N	BL02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	44,600	<50	199 J	96,300	1.6 J	----	52,600,000	426	4,660 J+
Post-Construction Performance Monitoring Results																	

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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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<700	18,700	98.9 J	104,000	29 J	----	4,390,000	24 J	1,050 J+
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<700	18,400	50.5 J	102,000	----	----	5,050,000	24 J	1,170 J+
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<560	19,100	<35	108,000	<0.49	----	4,640,000	17 J	1,410 J
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<560	19,200	<35	105,000	----	----	5,020,000	16 J	1,470 J
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,910	18,600	67.9 J	114,000	1.6	----	3,910,000	24 J	1,350 J
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	4,190	18,700	67.7 J	114,000	----	----	3,660,000	27 J	1,350 J
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<1,400	18,700	<35	108,000	2.9 J	----	5,820,000	22 J	1,310 J-
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<1,400	18,600	<35	108,000	----	----	5,790,000	25 J	1,340 J-
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<2,800	19,100	6,460 J	125,000	----	----	6,130,000	39	1,400 J-
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<2,800	18,800	2,940 J	106,000	----	----	5,980,000	39	1,320 J-
ZTS-MW140	9/11/2024	N	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<2,800	19,200	70.2 J	108,000	----	10	5,820,000	37	1,450 J+
ZTS-MW140	9/11/2024	FD	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<2,800	16,800	79.7 J	107,000	----	----	5,770,000	43	1,420 J+
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<700	18,200	60.3 J	102,000	30	----	5,170,000	22 J	1,490 J+
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<560	19,100	<35	107,000	3.1	----	4,590,000	15 J	1,530 J
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	2,780	18,800	74.7 J	113,000	2.3	----	4,310,000	25 J	1,320 J
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<1,400	18,700	<35	107,000	6.7 J	----	4,700,000	24 J	1,550 J-
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<2,800	19,000	1,900 J	108,000	----	----	5,750,000	33	1,530 J-
ZTS-MW119	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<2,800	17,100	102 J+	110,000	----	-360	5,680,000	68	1,320 J+
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<700	17,100	96.7 J	107,000	32 J	----	4,250,000	47	1,320 J+
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<700	17,600	<35	106,000	18.9	----	4,650,000	47	1,320 J
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<1,400	17,700	61.7 J	118,000	1.8	----	4,880,000	60	1,410 J
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<560	17,900	35.6 J	113,000	<0.49	----	5,720,000	36	1,360 J+
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<2,800	18,400	868 J	107,000	----	----	6,050,000	24 J	22,900 J-
ZTS-MW181	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<2,800	17,100	98.8 J	111,000	----	480	5,790,000	73	1,310 J
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<700	18,300	73.5 J	104,000	73	----	5,470,000	33	1,500 J+
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<700	18,100	<35	101,000	10.4	----	5,240,000	37 J-	1,360 J
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<1,400	18,900	<35	108,000	3	----	4,910,000 J-	43	1,380 J
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<1,400	17,900	44.9 J	106,000	3.5	----	5,700,000	22 J	13,000 J-
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<1,400	18,900	38.9 J	103,000	----	----	5,540,000	21 J	1,290 J
ZTS-MW188	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<2,800	17,200	86.1 J	109,000	----	-230	5,640,000	76	1,420 J+
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	<140	3,860 J-	143	117,000	26 J	----	2,090,000	72	476 J
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	<280	8,340	55 J	118,000	15.6	----	3,540,000	51	711 J
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	<560	7,500	111 J+	111,000	<0.49	----	3,130,000	46	717 J
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	<280	6,870	95.4 J	118,000	3.1	----	3,180,000	<14	699 J
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	<2,800	6,900	1,380 J	113,000	----	----	3,240,000	84	804 J
ZTS-MW204	9/11/2024	N	PM06	2C	Upgradient	-3	UMCf	30.3 - 40.0	<140	1,610	101 J+	120,000	----	-170	2,640,000	80	455 J
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	456 J	10,900	89.2 J	70,700	140	----	4,800,000	32	1,380
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	<700	12,600 J+	55.5 J	74,500	<0.49	----	4,890,000	38	1,490 J
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	<1,400	14,500	93.1 J	94,500	----	----	4,480,000	20 J	1,300 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	<560	15,600	257 J	105,000	16.4 J	----	3,490,000	92	1,380
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	<700 UJ	14,900	48 J	89,900	----	----	5,720,000 J-	22 J	1,510 J
ZTS-MW182	9/6/2024	N	PM06	2C	Center of Array	0	Alluvium	17.6 - 27.3	42,500 J-	15,500	47.3 J	94,700	----	460	5,770,000	19 J	1,340 J+
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	<700	15,700	96 J	99,800	60	----	3,710,000	27 J	1,300
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	<700	17,800	79.7 J	94,400	<0.49	----	4,840,000 J	74	1,570 J
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	<1,400	18,000	44.7 J	107,000	4.6 J	----	6,470,000	30 J	1,400 J
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	<700	19,100	<175	111,000	34.4 J	----	5,710,000	<14 UJ	1,070 J+
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	<700	17,900	<35	102,000	----	----	5,720,000 J-	29 J	1,410 J
ZTS-MW183	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	17.3 - 27.0	<1,400	18,200	69.4 J	106,000	----	150	5,930,000	22 J	1,320 J+
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	<700	14,700	97.3 J	85,100	2.7	----	5,120,000	51	1,360 J+
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	<560	16,900	56.2 J	93,900	16.8 J-	----	5,710,000	52 J+	1,760 J

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Well	Sample Date	QC Type	Event	Test Area	Location	Approximate Distance from ZVI Wall[1]	Screened Lithology	Screened Interval	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	4,030 J+	18,800	46.8 J	102,000	2.8	----	3,920,000	20 J	1,550 J+
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	<700	17,400	<175	98,800	5.1 J	----	5,630,000	18 J	1,250 J+
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	<1,400	17,000	<35	91,100	----	----	5,470,000	26 J	1,350 J
ZTS-MW187	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	15.3 - 25.0	<1,400	17,700	82.3 J	100,000	----	740	5,810,000	44 J+	1,300 J+
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	<700	19,400	87.9 J	108,000	260 J	----	7,300,000	479	1,500 J
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	<560	35,700	60.3 J	104,000	18 J-	----	3,600,000	41 J+	1,670 J
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	5,240 J+	20,400	53.7 J	115,000	13	----	3,710,000	29 J	1,650 J+
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	<1,400	17,800	755	104,000	36.6	----	4,700,000	<14	1,850 J+
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	<1,400	18,700	61.5 J	103,000	----	----	5,710,000	34	1,430 J
ZTS-MW141	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	14.5 - 24.5	<1,400	<50	105 J+	111,000	----	120	5,860,000	147	1,280
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	<700	15,800	141	94,200	900	----	5,700,000	55	1,380 J+
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	<140	16,600	37.5 J	93,600	15.4	----	5,430,000	60	1,310 J-
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	<700	15,600	90.5 J	98,500	1.8	----	6,170,000	38	1,280 J
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	<1,400	18,100	58.2 J	102,000	6.7	----	4,980,000	30 J	1,470 J+
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	<1,400	16,600	4,130 J+	111,000	----	----	5,940,000	76	1,280 J
ZTS-MW142	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	16.0 - 26.0	<1,400	377	333 J+	109,000	----	290	5,910,000	263	1,410
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	<700	17,200	114	99,700	13	----	5,280,000	37	1,420 J+
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	<700	19,300	51.1 J	101,000	30.5 J+	----	4,020,000	59	1,600 J+
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	<1,400	18,100	107 J+	113,000	4.7 J	----	6,280,000	27 J	1,450 J
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	<1,400	19,200	<350	112,000	17.2 J	----	5,890,000	39 J-	1,600 J+
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	<700	18,100	47.8 J	104,000	----	----	5,290,000	36	23,800 J-
ZTS-MW184	9/6/2024	N	PM06	2C	Downgradient	5	Alluvium	16.3 - 26.0	<1,400	18,200	78.6 J	110,000	----	20	5,920,000	17 J	1,340 J+
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	<140	249	116	127,000	46	----	1,890,000	75	546 J
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	162 J	328	77.6 J	124,000	13.6 J-	----	1,960,000	61 J+	824 J
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	450 J+	<50	72.3 J	127,000	4.8	----	1,360,000 J	28 J	596 J
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	<140	2,140	92 J	115,000	3.5	----	2,170,000	19 J	866 J
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	425	161	56.7 J	122,000	----	----	1,910,000 J-	29 J	25,500 J-
ZTS-MW205	9/9/2024	N	PM06	2C	Downgradient	5	UMCf	30.3 - 40.0	149 J	18,400	92.4 J	126,000	----	280	1,930,000	136	270 J
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	<700	18,100	123	111,000	11 J	----	7,800,000	89	1,370 J
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	<700	18,900	<35	104,000	7.5	----	5,850,000	41	1,450 J-
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	<700	18,100	71.5 J	107,000	8.5	----	6,350,000	33	1,370 J
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	<1,400	19,100	123	112,000	5.7	----	5,400,000	31	1,370 J-
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	<2,800	19,300	816 J	104,000	----	----	5,820,000	26 J	1,380 J
ZTS-MW185	9/10/2024	N	PM06	2C	Downgradient	15	Alluvium	15.3 - 25.0	<2,800	18,800	<35	118,000	----	30	5,770,000	73	1,320 J
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	<700	18,900	212	116,000	47 J	----	6,800,000	89	1,430 J
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	<700	18,900	<35	106,000	12.4	----	6,300,000	<14	1,450 J-
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	<700	18,200	73 J	109,000	<0.49	----	6,370,000	28 J	1,290 J+
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	<1,400	18,200	69.6 J	109,000	3.3	----	5,660,000	22 J	13,400 J-
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	<140	19,500	62.5 J	106,000	----	----	5,900,000	32	1,380 J
ZTS-MW186	9/10/2024	N	PM06	2C	Downgradient	25	Alluvium	15.3 - 25.0	<2,800	19,100	226 J+	128,000	----	100	5,880,000	111	1,430 J
LVWPS-MW102A	5/30/2023	N	PM01	2C	Downgradient	30	UMCf	47.0 - 66.6	205 J	4,740	124	92,300	47	----	11,300,000	53	1,250 J+
LVWPS-MW102A	8/23/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	184 J	4,800	46 J	91,800	2.4	----	11,200,000	102 J+	743 J
LVWPS-MW102A	10/11/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	99,900	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	2C	Downgradient	30	UMCf	47.0 - 66.6	319	5,220	135 J+	91,200	2.2	----	5,240,000	42	727 J
LVWPS-MW102A	2/27/2024	N	PM04	2C	Downgradient	30	UMCf	47.0 - 66.6	340 J	4,790	115	92,200	3.1	----	7,660,000	75	19,700
LVWPS-MW102A	5/23/2024	N	PM05	2C	Downgradient	30	UMCf	47.0 - 66.6	300 J+	5,320	204	89,900	----	----	11,000,000	86	781 J
LVWPS-MW102A	9/17/2024	N	PM06	2C	Downgradient	30	UMCf	47.0 - 66.6	<280	5,540	386 J+	89,900	----	30	11,300,000	62	728 J
LVWPS-MW102B	5/26/2023	N	PM01	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	485	<50	115	100,000	45	----	64,600,000	405	4,020
LVWPS-MW102B	8/23/2023	N	PM02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	4,730	<50	456	102,000	7.9	----	66,200,000	418	3,780 J
LVWPS-MW102B	12/1/2023	N	PM03	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	3,670	<50	542 J+	103,000	2.5	----	58,500,000	420	3,670 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	E351.2	E353.2	E365.4	Alkalinity by SM2320B	AM20	Field Lab Test	SM2540C	SM4500-P-E	SW9060A/SM5310B/5310 C-2000
									Total Kjeldahl Nitrogen (TKN)	Nitrogen, Nitrate-Nitrite	Phosphorus	Alkalinity as CaCO3	Hydrogen	Hydrogen	Total Dissolved Solids	Orthophosphorus as PO4	Dissolved Organic Carbon
						feet			µg/L	µg/L	µg/L	µg/L	nmol	nmol	µg/L	µg/L	µg/L
LVWPS-MW102B	2/27/2024	N	PM04	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<140 UJ	98 J	127	101,000	2.2	----	----	431	23,100
LVWPS-MW102B	5/23/2024	N	PM05	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	157 J	<50	140	96,600	----	----	25,500,000 J-	437	3,630 J
LVWPS-MW102B	9/17/2024	N	PM06	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	2,120	<50	618 J+	107,000	----	80	69,000,000	422	4,150 J-
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	<700	19,700	55.9 J	108,000	880 J	----	6,300,000	53	1,120 J
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	<700	18,700	55.1 J	103,000	2	----	5,180,000	41	1,260 J
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	4,030	19,200	87.1 J	105,000	3.9	----	4,330,000	30 J	1,390 J
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	<1,400	18,100	<35	107,000	3.1	----	5,720,000	24 J	15,200 J-
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	<140	19,800	35.3 J	107,000	----	----	5,900,000	29 J	1,320 J
ZTS-MW189	9/10/2024	N	PM06	2C	Downgradient	55	Alluvium	12.8 - 23.0	<2,800	19,300	<35	108,000	----	220	5,790,000	34	1,310 J
General Vicinity																	
Pre-Construction Baseline Results																	
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	<140	5,650	<35	94,100	<0.49	----	4,510,000	89	<106 UJ
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	616	12,000	131	96,500	4.9	----	7,670,000	316	1,120 J-
Post-Construction Performance Monitoring Results																	
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	<280	5,520	35.2 J	95,700	39	----	4,660,000	18 J	966 J
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	<140	5,740	64 J	101,000	9.1	----	406,000	28 J	991 J
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	<1,400	5,970	113	96,800	3.1	----	4,180,000	29 J	659 J
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	<280	6,950	52.5 J	96,700	11.3	----	4,360,000	21 J	20,700
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	<280	6,850	69.2 J	95,200	----	----	5,630,000	43	719 J
ZTS-MW116	9/12/2024	N	PM06	NA	NA	NA	UMCf	33.0 - 48.0	2,840 J+	5,860	49 J	94,700	----	280	5,600,000	<14	728 J
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	<700	11,600	55.5 J	94,800	17	----	4,900,000	40	982 J
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	<700	13,100	<35	96,500	3.1	----	4,510,000	47	1,150 J
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	<1,400	12,000	82.1 J	102,000	6.6	----	3,600,000	37	1,080 J
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	<560	8,670	76.3 J	97,700	24.5	----	4,660,000	66	918 J
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	<1,400	12,600	<35	98,900	----	----	3,910,000	25 J	19,700 J-
ZTS-MW128	9/12/2024	N	PM06	NA	NA	NA	UMCf	42.0 - 52.0	<1,400	11,500	39.3 J	97,200	----	380	5,410,000	18 J	924 J

Notes:
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 the sample.
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 may or may not be present in the sample.
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
< The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
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
PM05 Hydrogen samples cancelled with lab due to instrument failure.

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	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	23,700	1,440 J+	33,800	755,000	<18.5	<1.03	52.7	20.6	<0.19
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	21,700	1,480 J+	33,200	730,000	<18.5	<1.03	47.1 J	20.7 J	<0.19
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	23,900	1,580 J+	32,200	710,000	<18.5	<1.03	<0.18 UJ	87.3 J	<0.19
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	30,600	1,020 J+	23,000	387,000	<18.5	<1.03	22.2	33.2	<0.19
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	27,800	1,560 J+	35,100	770,000	<18.5	<1.03	47.2	20.2	<0.19
Post-Construction Performance Monitoring Results																	
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	27,100	1,120 J+	37,300	----	<18.5	<1.03	45.7	22	<0.19
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	25,400	1,050	37,100	----	<18.5	<1.03	46.6	20.8	<0.19
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	27,800	1,140	29,800	----	<18.5	<1.03	49.4	20.7	<0.19
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	27,900	890 J	38,700	----	<18.5	<1.03	53.7	21.9	<0.19
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	26,200	1,140 J+	35,300	----	<18.5	<1.03	48	22	<0.19
ZTS-MW143	9/13/2024	N	PM06	1A	Upgradient	-50	Alluvium	23.0 - 33.0	28,000	1,360 J+	32,000	----	<18.5	<1.03	50.4	26.4	<0.19
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	27,200	1,350 J+	33,100	----	<18.5	<1.03	47.1	18.4	<0.19
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	25,400	1,070	34,900	----	<18.5	<1.03	50.4	18.1	<0.19
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	25,600	1,300 J+	35,300	----	<18.5	<1.03	48.7	18.7	<0.19
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	25,300	1,160	35,800	----	<18.5	<1.03	52.3	20.4	<0.19
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	25,600	2,540	32,400	----	23.7 J	<1.03	47.3	17.1	<0.19
ZTS-MW124R	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.5 - 34.0	26,800	1,110 J+	31,700	----	<18.5	<1.03	47.8	16.7 J+	<0.19
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	31,300	571 J	31,200	----	<18.5	<1.03	7.45	26.8	<0.19
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	28,700	671 J	30,600	----	<18.5	<1.03	10.8	29.9	<0.19
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	27,000	779 J	31,900	----	<18.5	<1.03	10.8	28	<0.19
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	27,000	145 J	28,100	----	<18.5	<1.03	5.64	27.7	<0.19
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	27,300	415 J	31,800	----	<18.5	<1.03	8.42	27.8	<0.19
ZTS-MW125	9/16/2024	N	PM06	1A	Upgradient	-8	UMCf	40.0 - 50.0	27,100	1,960 J+	5,390	----	<18.5	4.44	0.932 J	136	<0.19
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	26,600	1,320 J+	35,400	----	<18.5	<1.03	48.3	16.2	<0.19
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	24,100	1,420 J+	33,800	----	<18.5	<1.03	48.1	17.7	<0.19
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	24,600	1,170 J+	35,800	----	24.5 J	<1.03	51.7	18.9	<0.19
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	25,000	929 J	36,600	----	<18.5	<1.03	51.4	19	<0.19
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	25,800	832 J	32,800	----	73.8 J	<1.03	51.8	17.3	<0.19
ZTS-MW153	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	27,800	1,150 J+	34,700	----	<18.5	<1.03	52.2	18 J+	<0.19
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	26,600	889 J	35,800	----	<18.5	<1.03	51.7	18	<0.19
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	23,200	1,240 J+	34,700	----	<18.5	<1.03	49.2	17.8	<0.19
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	23,100	1,160 J+	35,900	----	<18.5	<1.03	53.1	18.6	<0.19
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	23,000	1,200	36,800	----	<18.5	<1.03	53.4	20.1	<0.19
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	24,800	873 J	32,600	----	25 J	<1.03	51.7	20.3	<0.19
ZTS-MW163	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	25,100	1,000 J+	32,700	----	<18.5	<1.03	49.2	17.3 J+	<0.19
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	6,690	2,380 J+	716	----	<18.5	<1.03	<0.18	27.1	<0.19
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	6,510	1,160 J+	1,270	----	<18.5	<1.03	<0.18	17.4	<0.19
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	5,650	1,050 J+	1,350	----	<18.5	<1.03	<0.18	16.5	<0.19
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	5,960	901 J	1,010	----	<18.5	1.23 J	0.188 J	15.9	<0.19
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	7,660	1,120 J+	2,350	----	<18.5	<1.03	<0.18	15.4	<0.19
ZTS-MW150	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	24.3 - 34.0	7,860	1,100	3,170	----	<18.5	<1.03	<0.18	14.6	<0.19
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5,770	902 J	769	----	<18.5	<1.03	<0.18	25.1	<0.19
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	6,200	1,020 J+	599	----	<18.5	<1.03	<0.18	20.6	<0.19
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,890	992 J	541	----	<18.5	<1.03	<0.18	19.4	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,040	1,080 J+	424	----	<18.5	<1.03	<0.18	18	<0.19
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5,730	926 J	1,040	----	<18.5	<1.03	<0.18	16.4	<0.19
ZTS-MW154	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,570	1,070	768	----	26 J	<1.03	<0.18	16.7	<0.19
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	7,630	1,290 J+	4,160	----	<18.5	<1.03	<0.18	29.3	<0.19
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	7,420	1,310 J+	3,750	----	<18.5	<1.03	<0.18	29.2	<0.19
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5,210 J-	1,090 J+	2,750 J-	----	<18.5	<1.03	0.27 J	25.5	<0.19
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5,010 J-	1,080 J+	2,800 J-	----	<18.5	<1.03	0.295 J	26.2	<0.19
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	7,620	1,100	6,580	----	<18.5	<1.03	0.666 J	26.5	<0.19
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	7,320	1,050 J+	6,270	----	<18.5	<1.03	0.668 J	25.4	<0.19
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5,960	907 J	4,320	----	<18.5	<1.03	1.04 J	22.8	<0.19
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5,740	928 J	4,200	----	<18.5	<1.03	0.962 J	23.2	<0.19
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	5,210	1,030 J+	2,790	----	<18.5	<1.03	0.349 J	22.7	<0.19
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,800	1,070 J+	3,120	----	<18.5	<1.03	0.324 J	24	<0.19
ZTS-MW164	9/6/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,240	1,300 J+	2,000	----	<18.5	<1.03	0.686 J	21.4	<0.19
ZTS-MW164	9/6/2024	FD	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	4,530	1,090 J+	2,250	----	<18.5	<1.03	0.68 J	20.9	<0.19
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	17,200	1,040	10,000	----	<18.5	<1.03	8.53	24.3	<0.19
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	20,000	1,060 J+	12,600	----	<18.5	<1.03	8.4	21.9	<0.19
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	25,300 J-	1,020 J+	16,000	----	<18.5	<1.03	5.69	25.2	<0.19
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	24,000	980 J	14,600	----	<18.5	2.31 J	4.62	22.5	<0.19
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	27,200	992 J	20,500	----	<18.5	<1.03	4.35	20.2	<0.19
ZTS-MW151	9/11/2024	N	PM06	1A	Downgradient	5	Alluvium	24.3 - 34.0	28,600	881 J	19,500	----	<18.5	<1.03	4.57	20.5	<0.19
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	14,100	837 J	4,380	----	<18.5	<1.03	0.249	58.5	<0.19
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	14,100	829 J	4,590	----	<18.5	<1.03	0.338	58	<0.19
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	24,300	1,180 J+	13,900	----	<18.5	<1.03	4.09	22.1	<0.19
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	24,100	1,190 J+	14,300	----	<18.5	<1.03	4.57	23.2	<0.19
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	22,200	1,010 J+	14,600	----	<18.5	<1.03	2.93	21.9	<0.19
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	22,400	1,010 J+	15,100	----	24.3 J	<1.03	3.27	22.4	<0.19
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	21,900	971 J	16,400	----	<18.5	<1.03	2.68	18.9	<0.19
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	21,600	935 J	16,500	----	<18.5	<1.03	2.53	19.6	<0.19
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	25,100	1,210	19,400	----	<18.5	<1.03	2.45	19	<0.95
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	24,900	1,160	19,600	----	<18.5	<1.03	2.43	18.7	<0.95
ZTS-MW155	9/10/2024	N	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	25,200 J-	924 J	19,500	----	<18.5	<1.03	1.66 J	18.5	<0.19
ZTS-MW155	9/10/2024	FD	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	25,400 J-	948 J	19,200	----	<18.5	<1.03	1.47 J	18.7	<0.19
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	28,200	312 J	32,000	----	<18.5	<1.03	1.23	25.9	<0.19
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	26,400	561 J	31,800	----	<18.5	<1.03	2.01	20	<0.19
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	25,700	559 J	31,400	----	<18.5	<1.03	1.05 J	18.6	<0.19
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	26,700	176 J	28,500	----	<18.5	<1.03	1.99 J	18.8	<0.19
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	25,800	1,640 J+	30,900	----	<18.5	<1.03	9.45	24.3	<0.19
ZTS-MW156	9/9/2024	N	PM06	1A	Downgradient	5	UMCf	43.8 - 53.5	25,400	212 J	31,500	----	<18.5	<1.03	0.659 J	18	<0.19
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	17,000	1,410 J+	8,680	----	<18.5	<1.03	2.63	33.3	<0.19
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	21,200	1,060 J+	21,400	----	<18.5	<1.03	2 J	21.2	<0.19
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	22,300	1,270 J+	26,800	----	<18.5	<1.03	1.68 J	21.4 J+	<0.19
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	23,000	786 J	23,400	----	<18.5	<1.03	1.83 J	20.1	<0.19
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	23,700	1,150 J+	27,500	----	<18.5	<1.03	1.39 J	20.9	<0.19
ZTS-MW165	9/6/2024	N	PM06	1A	Downgradient	5	Alluvium	22.3 - 32.0	24,200	1,170 J+	27,600	----	<18.5	<1.03	1.47 J	21	<0.19
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	16,500	976 J	13,400	----	<18.5	<1.03	29.6	18	<0.19
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	22,200	1,160 J+	17,300	----	<18.5	<1.03	11.9	16.9	<0.19
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	25,000	1,010 J+	20,100	----	<18.5	<1.03	10.9	20.5	<0.19
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	22,000	1,020 J+	17,800	----	<18.5	<1.03	8.8	19.9	<0.19
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	27,300	896 J	25,600	----	<18.5	<1.03	8.48	19.8	<0.19
ZTS-MW152	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	29,200	1,010	28,400	----	<18.5	<1.03	7.68	19	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	15,300	841 J	6,140	----	<18.5	<1.03	7.5	40.3	<0.19
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	18,500	1,080 J+	9,720	----	<18.5	<1.03	4.84	23.5	<0.19
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	19,000	1,170 J+	13,300	----	<18.5	<1.03	4.85	21.8	<0.19
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	21,300	969 J	17,600	----	<18.5	<1.03	5.97	18.7	<0.19
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	24,000	1,200 J+	19,900	----	<18.5	<1.03	5.02	18.8	<0.19
ZTS-MW157	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	27,500	958 J	23,000	----	<18.5	<1.03	3.66	19	<0.19
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	22,800	936 J	13,200	----	<18.5	<1.03	6.8	20.7	<0.19
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	24,100	1,130 J+	20,000	----	<18.5	<1.03	5.39	20	<0.19
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	23,400	1,100 J+	28,600	----	<18.5	<1.03	3.41	21.7 J+	<0.19
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	24,400	982 J	25,500	----	<18.5	<1.03	2.91	22.8	<0.19
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	25,300	1,240 J+	29,100	----	<18.5	<1.03	3.19	23.4	<0.19
ZTS-MW162	9/9/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	25,000	1,030	33,600	----	<18.5	<1.03	3.44	23.5	<0.19
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	26,400	1,450 J+	28,300	----	<18.5	<1.03	30.3	23.7	<0.19
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	25,700	1,240	36,300	----	<18.5	<1.03	39.5	28.4	<0.19
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	27,700	1,080 J+	35,500	----	<18.5	3.95 J	37.8	27.4 J+	<0.19
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	26,600	4,230	31,600	----	<18.5	<1.03	40	31.8	<0.19
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	26,700	1,050 J+	33,600	----	<18.5	<1.03	40.4	23.1	<0.19
ZTS-MW149	9/11/2024	N	PM06	1A	Downgradient	25	Alluvium	23.3 - 33.0	26,000	1,050 J+	31,600	----	<18.5	<1.03	42.3	26.8	<0.19
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	18,500	1,150 J+	10,500	----	<18.5	<1.03	14.9	20	<0.19
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	17,400 J-	1,030	15,200	----	<18.5	<1.03	16.3	17.5	<0.19
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	20,300 J-	1,250 J+	21,000	----	<18.5	<1.03	14.9	16.4 J+	<0.19
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	17,500	2,990	16,900	----	<18.5	<1.03	15	19.3	<0.19
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	22,100 J-	1,220 J+	22,100	----	<18.5	<1.03	12.9	19.7	<0.19
ZTS-MW144	9/11/2024	N	PM06	1A	Downgradient	35	Alluvium	24.0 - 34.0	20,700 J+	914 J	21,000	----	<18.5	<1.03	12.3	20.6	<0.19
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	16,100	942 J	14,700	----	<18.5	<1.03	17.3	19.5	<0.19
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	15,900	1,060 J+	11,000	----	<18.5	<1.03	12.9	18.3	<0.19
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	20,500	1,240 J+	16,300	----	<18.5	<1.03	18.9	17.9	<0.19
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	15,800	1,090	16,800	----	<18.5	<1.03	17.6	18.3	<0.19
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	22,100	866 J	17,500	----	<18.5	<1.03	14.9	15.7	<0.95
ZTS-MW158	9/12/2024	N	PM06	1A	Downgradient	50	Alluvium	23.3 - 33.0	22,700	1,720 J+	18,500	----	<18.5	<1.03	15.5	18.7	<0.19
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	29,200	1,120 J+	25,000	----	<18.5	2.04 J	8.4	37.2	<0.19
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	23,700	1,020 J+	26,100	----	<18.5	<1.03	24	22.3	<0.19
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	25,100	1,110 J+	28,000	----	<18.5	<1.03	26.9	21.7	<0.19
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	22,200	1,060	29,400	----	<18.5	<1.03	26.4	24.3	<0.19
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	25,700	764 J	26,400	----	<18.5	1.6 J	22.7	24.2	<0.95
ZTS-MW159	9/12/2024	N	PM06	1A	Downgradient	50	UMCf	38.8 - 48.5	24,900 J-	1,490 J+	27,400	----	<18.5	<1.03	19.7	27.2	<0.19
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	21,500	1,280 J+	21,300	----	<18.5	<1.03	32.5	15.1	<0.19
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	22,500	1,440	25,700	----	<18.5	<1.03	29.9	15.5	<0.19
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	22,900	1,310 J+	29,400	----	<18.5	<1.03	27.8	19.2	<0.19
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	21,100 J-	1,040	29,800	----	<18.5	<1.03	27.7	18.8	<0.19
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	23,500	881 J	28,300	----	<18.5	<1.03	31.7	18.4	<0.19
ZTS-MW160	9/13/2024	N	PM06	1A	Downgradient	100	Alluvium	23.3 - 33.0	24,800	1,280 J+	26,700	----	<18.5	<1.03	31.8	18.3	<0.19
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	16,800 J-	1,280 J+	22,800	----	<18.5	<1.03	34.2	15.9	<0.19
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	20,800	946 J	20,400	----	<18.5	<1.03	29.7	17.1	<0.19
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	20,700	904 J	20,000	----	<18.5	<1.03	28.3	17	<0.19
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	22,000	1,160 J+	20,000	----	<18.5	<1.03	30.4	16.2	<0.19
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	22,800	1,230 J+	20,200	----	<18.5	<1.03	30.2	16.5	<0.19
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	22,900	2,550 J	17,700	----	<18.5	<1.03	29.4	17.7	<0.19
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	22,700	1,510 J	17,700	----	<18.5	<1.03	30.4	17.9	<0.19
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	23,100	949 J	21,700	----	22.8 J	<1.03	30	16.7	<0.19
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	22,200	814 J	21,900	----	22.6 J	<1.03	30	14.5	<0.19

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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/SM5 310B/5310 C-2000	SW9060A/SM5 310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW161	9/13/2024	N	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	26,200	1,250 J+	22,500	----	<18.5	<1.03	30.2	15.2	<0.19
ZTS-MW161	9/13/2024	FD	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	26,200	1,240 J+	22,500	----	<18.5	<1.03	29.3	16	<0.19
Between Test Area 1A and Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	25,800	<102 UJ	25,100	559,000	<18.5	<1.03	16.3	27.3	<0.19
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	29,800	1,590 J+	25,000	727,000	<18.5	<1.03	23.1	33.1	<0.19
Post-Construction Performance Monitoring Results																	
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	31,500 J-	2,150 J+	11,300	----	53.1 J	<1.03	2.25	92	<0.19
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	26,400	453 J	31,300	----	<18.5	<1.03	2.31	19.2	<0.19
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	25,400	278 J	25,800	----	<18.5	<1.03	1.57 J	17.4	<0.19
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	27,000	653 J	24,400	----	<18.5	<1.03	2.55	35.1	<0.19
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	27,400	906 J	23,900	----	<18.5	<1.03	1.93 J	41.2	<0.19
ZTS-MW145	9/16/2024	N	PM06	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	26,300	466 J	30,500	----	<18.5	<1.03	1.02 J	21.9 J+	<0.19
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	31,100	1,010 J+	28,900	----	<18.5	<1.03	8.3	38.7	<0.19
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	29,700	609 J	32,800	----	<18.5	<1.03	0.586 J	23.5	<0.19
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	26,300	779 J	32,700	----	<18.5	<1.03	0.457 J	24 J+	<0.19
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	27,300	290 J	28,300	----	<18.5	<1.03	0.392 J	22.2	<0.19
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	28,100	603 J	30,800	----	<18.5	<1.03	0.373 J	20.9	<0.19
ZTS-MW146	9/12/2024	N	PM06	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	27,100	1,030 J+	27,300	----	<18.5	<1.03	0.352 J	22.6	<0.19
Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	22,800	1,700 J+	39,300	765,000	<18.5	<1.03	59.9	27	<0.19
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	25,500	1,830 J+	40,000	796,000	<18.5	<1.03	52.4	24.7	<0.19
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	24,900	1,670 J+	39,800	797,000	<18.5	<1.03	58.1	24.1	<0.19
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	24,400	2,430 J+	34,100	791,000	<18.5	<1.03	40.7	20.4	<0.19
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	27,100	1,800 J+	34,400	780,000	<18.5	<1.03	51.2	25.3	<0.19
LVWPS-MW107A	10/24/2022	N	BL02	1B	Downgradient	50	Alluvium	24.8 - 34.5	24,800	1,850 J+	33,500	772,000	<18.5	<1.03	49.8	23.6	<0.19
LVWPS-MW107B	10/21/2022	N	BL02	1B	Downgradient	50	UMCf	46.0 - 65.8	20,600	<102	24,800	846,000	<18.5	<1.03	<0.18	21.2	<0.19
LVWPS-MW107C	10/24/2022	N	BL02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	17,300	4,990 J+	4,040	11,200,000	<18.5	<103	2.48	2,760	<19
Post-Construction Performance Monitoring Results																	
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	24,600	1,550 J+	39,800	----	<18.5	<1.03	52.2	24.8	<0.19
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	23,400	1,450 J+	37,800	----	<18.5	<1.03	49.9	26.7	<0.19
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	22,600	1,450 J+	39,400	----	<18.5	<1.03	54.9	25.9	<0.19
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	23,400	3,500	33,800	----	<18.5	<1.03	55.4	29.6	<0.19
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	23,500	1,020	4,600	----	<185	<10.3	<1.8	22.6 J+	<1.9
ZTS-MW147	9/16/2024	N	PM06	1B	Upgradient	-50	Alluvium	19.5 - 29.5	24,300 J-	1,310 J+	35,400	----	<18.5	<1.03	49.1	24.8 J+	<0.19
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	28,500	986 J	43,400	----	<18.5	<1.03	64.4	24.5	<0.19
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	27,000	1,080 J+	44,800	----	<18.5	<1.03	64.4	25.4	<0.19
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	22,700	1,240 J+	42,600	----	<18.5	<1.03	64.3	24.8 J+	<0.19
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	22,900	1,190 J+	36,700	----	<18.5	<1.03	66.5	28.1	<0.19
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	26,000	1,150 J+	40,600	----	<18.5	<1.03	59.5	28.1	<0.19
ZTS-MW126	9/13/2024	N	PM06	1B	Upgradient	-8	Alluvium	20.0 - 30.0	27,300	1,350 J+	35,800	----	<18.5	<1.03	60.6	27.2	<0.19
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	26,100	1,450	40,600	----	<18.5	<1.03	43	21	<0.19
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	25,100	1,960	40,700	----	<18.5	<1.03	45.4	19.5	<0.19
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	22,700	1,430 J+	40,200	----	<18.5	<1.03	43.5	19.5 J+	<0.19
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	24,800	1,250 J+	34,900	----	<18.5	<1.03	50.9	21.9	<0.19
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	24,000	1,240 J+	37,800	----	113	<1.03	42.3	20.8	<0.19
ZTS-MW127R	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	18.5 - 23.0	27,200	1,270 J+	36,000	----	<18.5	<1.03	41.9	18.5 J+	<0.19
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	24,600	1,230	41,200	----	<18.5	<1.03	49.6	22.3	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	24,800	1,350	41,000	----	<18.5	<1.03	52.9	23	<0.19
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	22,300	1,370 J+	39,500	----	<18.5	<1.03	48.3	22.2 J+	<0.19
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	22,600	985 J	35,100	----	<18.5	<1.03	54.4	24.4	<0.19
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	24,000 J-	1,030 J+	37,900	----	<18.5	<1.03	54	22	<0.19
ZTS-MW169	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	17.1 - 27.0	26,300	1,240 J+	36,000	----	<18.5	<1.03	48.8	18.9 J+	<0.19
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	24,800	851 J	37,800	----	<18.5	<1.03	31.3	19.2	<0.19
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	24,300	1,300	39,500	----	<18.5	<1.03	38.5	19.1	<0.19
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	21,600	1,050 J+	37,900	----	<18.5	<1.03	37.7	18.8 J+	<0.19
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	23,300	647 J	33,400	----	<18.5	<1.03	40.8	20.1	<0.19
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	23,300	629 J	36,200	----	<18.5	<1.03	37.1	19.1	<0.19
ZTS-MW170	9/16/2024	N	PM06	1B	Upgradient	-8	UMCf	31.1 - 41.0	25,100	1,250 J+	35,600	----	<18.5	<1.03	46.1	20.6 J+	<0.19
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	3,310	1,310 J+	323 J+	----	<18.5	<1.03	<0.18	32.9	<0.19
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	8,150	964 J	5,460	----	50.9 J	<1.03	0.307 J	24.7	<0.19
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,110	1,160 J+	371	----	<18.5	<1.03	<0.18	23.9	<0.19
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	1,440	1,070 J+	287	----	<18.5	<1.03	<0.18	24.6	<0.19
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	1,860 J+	1,300 J+	209	----	25.1 J	<1.03	<0.18	20.7	<0.19
ZTS-MW166	9/6/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,760	1,350 J+	329	----	<18.5	<1.03	<0.18	20.9	<0.19
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	8,280	1,720 J+	720	----	<18.5	<1.03	0.214 J	24.6	<0.19
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	7,200	1,280 J+	950	----	<18.5	<1.03	0.198 J	18	<0.19
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	5,670	1,220	815	----	<18.5	<1.03	0.184 J	16.6	<0.19
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	4,360	1,050	436	----	<18.5	<1.03	29.8	26.1	<0.19
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	4,440	1,370	605	----	<18.5	<1.03	0.223 J	17.3	<0.95
ZTS-MW171	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.3 - 29.0	3,260	1,300	541	----	<18.5	<1.03	<0.18	17.8	<0.19
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	752 J	1,060	222	----	<18.5	<1.03	0.221 J	36	<0.19
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	1,470 J+	1,110 J+	236 J+	----	<18.5	<1.03	<0.18	29.5	<0.19
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	1,000	1,010 J+	244	----	<18.5	<1.03	<0.18	30.5	<0.19
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	892 J	1,060 J+	227	----	<18.5	<1.03	<0.18	31.8	<0.19
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	1,910 J+	1,160 J+	147 J	----	<18.5	<1.03	0.249 J	30	<0.19
ZTS-MW178	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	17.8 - 27.5	633 J	1,060	177 J	----	<18.5	<1.03	<0.18	30	<0.19
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	4,820	960 J	2,540	----	<18.5	<1.03	3.49 J+	54.9	<0.19
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	2,970 J+	1,150 J+	2,700 J+	----	<18.5	<1.03	2.47	24.2	<0.19
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	1,960	1,260 J+	2,510	----	<18.5	<1.03	3.2	24.8	<0.19
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	2,620	1,280 J+	2,390	----	<18.5	<1.03	2.83	23.7	<0.19
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	5,010	1,410 J+	2,070	----	<18.5	<1.03	1.69 J	26.8	<0.19
ZTS-MW167	9/6/2024	N	PM06	1B	Downgradient	5	Alluvium	23.3 - 33.0	4,970 J-	1,220 J+	2,760	----	<18.5	<1.03	1.84 J	23.6	<0.19
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	3,910	1,370 J+	8,940	----	<18.5	<1.03	15	19.5	<0.19
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	4,370	1,390 J+	9,140	----	<18.5	<1.03	15.2	20.1	<0.19
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	8,460	1,210 J+	4,840	----	<18.5	<1.03	6.07	29.7	<0.19
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	8,640	1,650 J+	4,780	----	<18.5	<1.03	5.87	30.5	<0.19
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,400	1,200 J+	3,250	----	<18.5	<1.03	4.09	21.9 J+	<0.19
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,480	1,180 J+	3,230	----	56.4 J	<1.03	4.05	21.9 J+	<0.19
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	3,540	1,100 J+	4,020	----	<18.5	<1.03	4.18	21.2	<0.19
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	3,530	1,090 J+	3,930	----	<18.5	1.75 J	4.21	22.9	<0.19
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,470	993 J	5,290	----	<18.5	<1.03	7.78	21	<0.95
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,240	996 J	4,880	----	<18.5	<1.03	6.94	20.8	<0.95
ZTS-MW172	9/11/2024	N	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,400 J+	1,010 J+	4,250	----	<18.5	<1.03	5.4	19.9	<0.19
ZTS-MW172	9/11/2024	FD	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,460 J+	1,040 J+	4,270	----	<18.5	<1.03	5.38	20.1	<0.19
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	29,300	1,410	24,900	----	<18.5	11.5	13	54.2	<0.19
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	27,000	2,510 J+	23,600	----	<18.5	17	11.3	38.9	<0.19
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	31,300	4,060	26,600	----	<18.5	7.01	10.6	32.9	<0.19
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	24,000	407 J	27,800	----	<18.5	<1.03	18.7	21	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	23,000	444 J	29,600	----	<18.5	<1.03	22.5	19	<0.95
ZTS-MW173	9/12/2024	N	PM06	1B	Downgradient	5	UMCf	33.3 - 43.0	23,200	1,030 J+	28,900	----	<18.5	2.04 J	17.2	18.7	<0.19
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,040	1,120	10,100	----	<18.5	<1.03	19.1	27.6	<0.19
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,720 J+	1,160 J+	7,180	----	<18.5	<1.03	11.1	31	<0.19
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	1,620	1,170 J+	6,090	----	<18.5	<1.03	7.35	30.2 J+	<0.19
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	5,100	1,160 J+	5,440	----	<18.5	2.54 J	4.96	30.8	<0.19
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	3,770	1,380 J+	4,020	----	<18.5	<1.03	3.46	30.7	<0.19
ZTS-MW179	9/10/2024	N	PM06	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,010 J	984 J	4,350	----	<18.5	<1.03	3.25	26.3	<0.19
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,400	1,070 J+	6,130	----	<18.5	<1.03	13.8	21.7	<0.19
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	6,330	1,180 J+	6,920	----	<18.5	<1.03	8.7	21.5	<0.19
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	5,960	1,420 J+	6,210	----	<18.5	<1.03	6.96	19	<0.19
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	4,580	973 J	5,300	----	<18.5	<1.03	6.54	20.9	<0.19
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,590 J+	961 J	5,340	----	<18.5	<1.03	6.78	20.1	<0.19
ZTS-MW168	9/6/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	1,180 J+	5,660	----	<18.5	<1.03	8.14	19.1	<0.19
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	9,940	1,370 J+	9,430	----	<18.5	<1.03	18.6	25.8	<0.19
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	4,560	1,200 J+	7,540	----	<18.5	<1.03	11.2	19.2	<0.19
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	2,700	1,180 J+	6,820	----	<18.5	<1.03	10.3	18.7	<0.19
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	3,370	922 J	6,130	----	<18.5	<1.03	8.97	19	<0.19
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	2,960 J+	1,330 J+	4,750	----	<18.5	<1.03	7.39	17.6	<0.19
ZTS-MW174	9/11/2024	N	PM06	1B	Downgradient	15	Alluvium	19.8 - 29.5	2,290 J+	1,060 J+	4,890	----	<18.5	<1.03	7	19.2	<0.19
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	5,320	1,140	9,490	----	<18.5	<1.03	11.4	22.3	<0.19
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	3,420 J+	1,230 J+	6,720	----	<18.5	<1.03	8.64	18.1	<0.19
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	3,420	1,580 J+	8,230	----	<18.5	<1.03	9.66	16.4	<0.19
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,890	1,010	5,750	----	<18.5	<1.03	7.17	18.3	<0.19
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	4,630	1,300 J+	6,920	----	<18.5	<1.03	7.25	18.9	<0.19
ZTS-MW177	9/10/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,790 J+	889 J	5,690	----	<18.5	<1.03	5.96	17.7	<0.19
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	25,600	1,170 J+	34,300	----	35.3 J	<1.03	48.6	18.3	<0.19
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	25,900	1,140 J+	34,600	----	<18.5	<1.03	44.9	16.8	<0.19
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	25,600	1,340	43,400	----	<18.5	<1.03	52.9	17	<0.19
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	25,500	1,310	43,300	----	<18.5	<1.03	52.7	17.4	<0.19
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	17,600	1,300 J+	40,600	----	<18.5	<1.03	50.5	17.8 J+	<0.19
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	22,200	1,300 J+	40,700	----	<18.5	<1.03	50.4	17.5 J+	<0.19
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	22,100	1,130 J+	36,000	----	<18.5	<1.03	54.2	19	<0.19
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	21,300	1,130 J+	36,100	----	<18.5	<1.03	55.4	20.3	<0.19
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	23,400	1,040 J+	38,600	----	<18.5	<1.03	51	17.9	<0.19
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	23,900	1,080 J+	38,000	----	<18.5	<1.03	52.8	18.3	<0.19
ZTS-MW180	9/10/2024	N	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	25,100	1,170 J+	37,000	----	<18.5	<1.03	50.1	17.4	<0.19
ZTS-MW180	9/10/2024	FD	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	25,300	1,040 J+	37,300	----	<18.5	<1.03	49.9	18.2	<0.19
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	9,820	1,160	9,570	----	<18.5	<1.03	20.7	19.5	<0.19
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	5,420	1,160 J+	10,600	----	<18.5	<1.03	18.4	18.6	<0.19
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	3,280	1,260 J+	9,630	----	<18.5	<1.03	18.9	17	<0.19
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	3,330 J-	1,250 J+	8,630	----	<18.5	<1.03	14.2	16.2	<0.19
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	4,070	1,070 J+	8,090	----	<18.5	<1.03	11.1	18.3	<0.19
ZTS-MW148	9/12/2024	N	PM06	1B	Downgradient	35	Alluvium	22.0 - 32.0	2,730 J+	1,740 J+	8,500	----	<18.5	<1.03	13.3	16.7	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107A	5/23/2023	N	PM01	1B	Downgradient	50	Alluvium	24.8 - 34.5	6,070	1,600 J+	7,410	----	43.7 J	<1.03	11.3	19.2	<0.19
LVWPS-MW107A	8/24/2023	N	PM02	1B	Downgradient	50	Alluvium	24.8 - 34.5	3,970	1,250	7,240	----	<18.5	<1.03	11.2	21.8	<0.19
LVWPS-MW107A	11/30/2023	N	PM03	1B	Downgradient	50	Alluvium	24.8 - 34.5	3,760	1,090 J+	6,530	----	<18.5	<1.03	10.1	20.5 J+	<0.19
LVWPS-MW107A	2/22/2024	N	PM04	1B	Downgradient	50	Alluvium	24.8 - 34.5	3,830	1,110 J+	6,610	----	<18.5	<1.03	11.1	27.5	<0.19
LVWPS-MW107A	5/28/2024	N	PM05	1B	Downgradient	50	Alluvium	24.8 - 34.5	4,180	2,040	6,090	----	<18.5	<1.03	9.27	20.6	<0.19
LVWPS-MW107A	9/12/2024	N	PM06	1B	Downgradient	50	Alluvium	24.8 - 34.5	3,660 J+	1,660 J+	6,130	----	<18.5	<1.03	9.59	21.6	<0.19
LVWPS-MW107B	5/23/2023	N	PM01	1B	Downgradient	50	UMCf	46.0 - 65.8	24,900	797 J	23,900	----	<18.5	<1.03	1.88 J	16.2	<0.19
LVWPS-MW107B	8/24/2023	N	PM02	1B	Downgradient	50	UMCf	46.0 - 65.8	16,600	905 J	11,700	----	<18.5	7.76	6.64	56.9	<0.19
LVWPS-MW107B	12/1/2023	N	PM03	1B	Downgradient	50	UMCf	46.0 - 65.8	15,000	1,260 J+	6,810	----	<18.5	13.7	9.03	81.7	<0.19
LVWPS-MW107B	2/23/2024	N	PM04	1B	Downgradient	50	UMCf	46.0 - 65.8	21,100	3,580	21,700	----	<18.5	<1.03	1.75 J	16.5	<0.19
LVWPS-MW107B	5/24/2024	N	PM05	1B	Downgradient	50	UMCf	46.0 - 65.8	22,000	730 J	20,700	----	<18.5	<1.03	1.56 J	15.9	<0.19
LVWPS-MW107B	9/12/2024	N	PM06	1B	Downgradient	50	UMCf	46.0 - 65.8	21,900	1,010 J+	21,800	----	<18.5	<1.03	2.02	16.9	<0.19
LVWPS-MW107C	5/23/2023	N	PM01	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	21,100	4,430	4,320	----	<18.5	<1.03	0.28 J	23.4	<0.19
LVWPS-MW107C	8/24/2023	N	PM02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	25,300	4,730	5,190	----	<185	<10.3	5.47 J	47.5	<1.9
LVWPS-MW107C	12/1/2023	N	PM03	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	19,900	4,430 J+	4,740	----	<185	<10.3	<1.8	20.7 J+	<1.9
LVWPS-MW107C	2/23/2024	N	PM04	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	17,900	6,360	3,910	----	<370	<20.6	<3.6	22.2 J	<3.8
LVWPS-MW107C	5/28/2024	N	PM05	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	19,800	4,060	34,500	----	<18.5	<1.03	52.6	23.7	<0.19
LVWPS-MW107C	9/13/2024	N	PM06	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	20,800	4,090	4,590	----	<185	<10.3	<1.8	19.8 J	<1.9
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	11,800	1,550 J+	29,500	----	<18.5	<1.03	46.6	19.9	<0.19
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	7,520	1,070 J+	22,500	----	<18.5	<1.03	39.6	21.3	<0.19
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	5,260	1,150 J+	17,900	----	<18.5	<1.03	32.3	19.2 J+	<0.19
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	4,930	1,640 J+	17,100	----	<18.5	<1.03	36.8	20.4	<0.19
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	3,990	925 J	13,800	----	<18.5	<1.03	34.8	21	<0.19
ZTS-MW175	9/12/2024	N	PM06	1B	Downgradient	100	Alluvium	19.8 - 29.5	4,310 J+	1,740 J+	12,500	----	<18.5	<1.03	30.1	20.7	<0.19
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	13,200	2,270 J+	34,000	----	<18.5	<1.03	51.9	20	<0.19
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	10,000	1,140 J+	27,600	----	<18.5	<1.03	47.5	21.4	<0.19
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	7,460	1,290 J+	22,800	----	<18.5	1.81 J	43.7	21.3	<0.19
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	8,240	1,140	23,600	----	<18.5	1.08 J	47.8	20.9	<0.19
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	8,630	935 J	20,700	----	<18.5	<1.03	40.7	20.4	<0.19
ZTS-MW176	9/13/2024	N	PM06	1B	Downgradient	150	Alluvium	19.8 - 29.5	9,240	1,310 J+	18,000	----	32 J	<1.03	36	21.3	<0.19
Test Area 2A																	
Pre-Construction Baseline Results																	
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	21,300	2,240 J+	39,200	793,000	<18.5	<1.03	52.4	29.1	<0.19
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	23,400 J-	2,050	41,400	818,000	<18.5	<1.03	48.8	27.1	<0.19
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	20,400 J-	2,060 J+	36,500	770,000	<18.5	<1.03	44.5	39.1	<0.19
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	25,200	2,030	37,500	795,000	<18.5	<1.03	29.8	39	<0.19
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	22,700	1,580 J	3,520	69,300	<18.5	<1.03	56.5	25.8	<0.19
Post-Construction Performance Monitoring Results																	
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	25,700	1,820 J+	32,800	----	27.1 J	<1.03	53.1	23.7	<0.19
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	24,400	1,290	41,800	----	<18.5	<1.03	58.5	23.9	<0.19
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	23,400	1,500 J+	39,400	----	<18.5	<1.03	59.3	22.1	<0.19
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	23,800	1,250 J+	33,100	----	<18.5	<1.03	59.9	23.4	<0.19
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	23,800	1,210 J+	31,800	----	<18.5	<1.03	59.5	20.9	<0.19
ZTS-MW137	9/16/2024	N	PM06	2A	Upgradient	-9	Alluvium	14.0 - 24.0	25,800	1,310 J+	35,200	----	<18.5	<1.03	53.6	19.3 J+	<0.19
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	27,800	1,730 J+	36,000	----	<18.5	<1.03	42.9	23.2	<0.19
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	27,800	1,720 J+	36,700	----	<18.5	<1.03	44	24.7	<0.19
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	26,800	1,340	42,100	----	<18.5	<1.03	50.9	25.2	<0.19
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	26,600	1,320	42,400	----	<18.5	<1.03	51.7	25.4	0.656 J
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	26,600	1,720 J+	39,800	----	<18.5	<1.03	51.7	24.5	<0.19
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	26,200	1,630 J+	39,000	----	<18.5	<1.03	52.9	24.8	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	26,100	1,200 J	33,100	----	<18.5	<1.03	54.2	24.7	<0.19
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	25,300	5,670 J	32,200	----	32 J	<1.03	52.3	25.7	<0.19
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	24,600 J-	1,240 J+	31,300	----	<18.5	<1.03	48.3	23.8	<0.19
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	24,200 J-	1,290 J+	31,400	----	<18.5	<1.03	47.6	23.8	<0.19
ZTS-MW118	9/16/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	27,800	1,300 J+	36,200	----	<18.5	<1.03	47.9	23.5 J+	<0.19
ZTS-MW118	9/16/2024	FD	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	27,700	1,430 J+	35,300	----	<18.5	<1.03	47.5	22.9 J+	<0.19
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	26,000	1,640 J+	36,200	----	<18.5	<1.03	48.1	23.4	<0.19
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	24,900	1,370 J+	39,400	----	<18.5	<1.03	50.9	22.3	<0.19
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	25,000	1,490 J+	39,600	----	<18.5	<1.03	56.9	22.3	<0.19
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	23,700	1,370 J+	33,800	----	<18.5	<1.03	52.4	21.6	<0.19
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	24,100	1,530 J+	36,800	----	<18.5	<1.03	47.5	20.1	<0.19
ZTS-MW190	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	14.3 - 24.0	25,300	1,230 J+	35,500	----	<18.5	<1.03	50.6	20.5	<0.19
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	26,000	1,670 J+	35,000	----	<18.5	<1.03	52.3	24.1	<0.19
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	24,500	1,290 J+	40,000	----	<18.5	<1.03	54.5	25	<0.19
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	22,700	1,460 J+	39,300	----	<18.5	1.41 J	54.5	23.8 J+	<0.19
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	23,000	1,420 J+	33,200	----	<18.5	<1.03	61.7	24.1	<0.19
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	25,000	1,410 J+	36,600	----	<18.5	<1.03	44.9	22.9	<0.19
ZTS-MW196	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.8 - 23.5	25,400	1,240 J+	35,200	----	<18.5	<1.03	51.9	20.7	<0.19
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	25,500	1,600 J+	34,300	----	<18.5	<1.03	41.8	21.9	<0.19
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	24,400	1,440	38,900	----	<18.5	<1.03	45.2	19.5	<0.19
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	23,400	1,230 J+	38,000	----	<18.5	1.09 J	35	24.9	<0.19
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	22,800	906 J	38,800	----	<18.5	1.08 J	29.3	20.7	<0.19
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	23,900	1,250 J+	37,500	----	<18.5	<1.03	43.5	18.8	<0.19
ZTS-MW202	9/16/2024	N	PM06	2A	Upgradient	-3	UMCf	28.8 - 38.5	25,200	1,130 J+	35,400	----	<18.5	<1.03	42.1	18.3 J+	<0.19
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	21,900	1,830 J+	29,600	----	<18.5	<1.03	35.2	39.3	<0.19
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	24,200	1,340 J+	37,000	----	<18.5	<1.03	50.2	26.7	<0.19
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	23,400	1,180 J+	35,600	----	<18.5	<1.03	59.4	25.9	<0.19
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	24,200 J-	1,350 J+	34,400	----	<18.5	<1.03	53.5	24.6	<0.19
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	24,000 J-	1,130	34,500	----	<18.5	<1.03	56.3	23.4	<0.95
ZTS-MW192	9/17/2024	N	PM06	2A	Center of Array	0	Alluvium	14.3 - 24.0	24,800	1,110 J+	34,900	----	<18.5	<1.03	52.1	22.8	<0.19
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	6,990	2,010 J+	7,120	----	69.1 J	<1.03	3.5	36.9	<0.19
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	7,050	1,320 J+	8,050	----	<18.5	<1.03	4.83	30.4	<0.19
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	8,830	1,390 J+	11,800	----	<18.5	<1.03	11.4	30.4	<0.19
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	11,700	1,090	15,300	----	<18.5	<1.03	16.4	22.9	<0.19
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	8,190	1,340 J+	12,800	----	<18.5	<1.03	14.8	30.7	<0.19
ZTS-MW191	9/18/2024	N	PM06	2A	Downgradient	1	Alluvium	14.8 - 24.5	9,960	1,400 J+	12,500	----	<18.5	<1.03	16.7	26.4	<0.19
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	24,400	1,670 J+	36,100	----	<18.5	<1.03	43.9	28.2	<0.19
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	22,800	1,620 J+	34,500	----	<18.5	<1.03	44.7	30.1	<0.19
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	23,200	1,640 J+	35,900	----	<18.5	<1.03	53	26.8	<0.19
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	23,900	1,050	33,300	----	<18.5	<1.03	50.6	23.8	<0.19
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	23,600	1,120	31,300	----	<18.5	<1.03	49.4	23.9	<0.95
ZTS-MW195	9/19/2024	N	PM06	2A	Downgradient	1	Alluvium	14.3 - 24.0	24,600	1,040	32,800	----	<18.5	<1.03	50	23.1	<0.19
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	23,800	2,430	39,100	----	<18.5	<1.03	56.4	26.3	<0.19
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	23,500	1,350 J+	37,300	----	27.1 J	<1.03	56.9	24.9	<0.19
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	22,700	1,220 J+	35,800	----	<18.5	<1.03	64	28.1	<0.19
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	23,200	1,020	34,700	----	<18.5	<1.03	57.6	21	<0.19
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	24,000	1,250	32,500	----	<18.5	<1.03	54.7	26.1	<0.95
ZTS-MW138	9/17/2024	N	PM06	2A	Downgradient	5	Alluvium	14.0 - 24.0	24,600	1,270 J+	34,200	----	<18.5	<1.03	53.3	24.4	<0.19
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	21,700	1,180 J+	35,300	----	<18.5	<1.03	45.6	26	<0.19
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	22,200 J-	1,320 J+	34,200	----	<18.5	<1.03	45	24.3	<0.19
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	22,200	1,400 J+	34,100	----	<18.5	<1.03	47.3	22.4	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	24,400 J-	1,090	31,700	----	<18.5	<1.03	47.5	23.7	<0.19
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	23,500	1,130	30,900	----	<18.5	<1.03	49.9	23.3	<0.95
ZTS-MW139	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.0 - 23.0	24,500	1,920	31,100	----	<18.5	<1.03	49.6	23.4	<0.19
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	23,900	1,200 J+	36,400	----	<18.5	<1.03	49	26.8	<0.19
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	23,800	1,450 J+	37,500	----	<18.5	<1.03	48.8	27.1	<0.19
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	24,300	1,440 J+	35,500	----	<18.5	<1.03	44.7	23.4	<0.19
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	24,400	1,430 J+	35,800	----	<18.5	<1.03	47.1	25.1	<0.19
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	23,500	1,310 J+	38,800	----	<18.5	<1.03	51.3	25.6 J+	<0.19
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	22,700	1,340 J+	38,200	----	<18.5	<1.03	48.3	24.7 J+	<0.19
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	24,600	1,360	33,700	----	<18.5	<1.03	53	22.2	<0.19
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	24,700	1,290	34,000	----	<18.5	<1.03	53.3	22.5	<0.19
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	23,800	1,410 J+	34,800	----	<18.5	<1.03	50.6	24.8	<0.19
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	23,400	1,360 J+	35,100	----	<18.5	<1.03	50.3	23.8	<0.19
ZTS-MW193	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	25,300	1,830	33,200	----	20.5 J	<1.03	53.3	22.8	<0.19
ZTS-MW193	9/18/2024	FD	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	24,600	1,690	33,000	----	<18.5	<1.03	51.1	21	<0.19
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	23,500	1,370 J+	33,900	----	<18.5	<1.03	38.6	18.3	<0.19
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	21,300	1,390 J+	37,600	----	<18.5	<1.03	43.1	16.2	<0.19
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	21,400	1,140 J+	38,400	----	<18.5	<1.03	34.8	17.7 J+	<0.19
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	24,300	867 J	33,300	----	<18.5	<1.03	26.1	23.9	<0.19
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	22,400	988 J	37,200	----	<18.5	<1.03	44.6	15	<0.19
ZTS-MW203	9/17/2024	N	PM06	2A	Downgradient	5	UMCf	28.3 - 38.0	22,700	1,180 J+	35,200	----	<18.5	2.19 J	44.4	15.3	<0.19
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	24,800	1,310 J+	38,800	----	<18.5	<1.03	58.1	23.8	<0.19
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	21,500	1,390 J+	35,600	----	<18.5	<1.03	53	23.6	<0.19
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	24,100	1,430 J+	38,700	----	<18.5	<1.03	62.3	25.3	<0.19
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	23,700	1,380	34,800	----	<18.5	<1.03	57.8	22.2	<0.19
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	24,000	1,410 J+	35,400	----	<18.5	<1.03	58.2	23	<0.19
ZTS-MW194	9/18/2024	N	PM06	2A	Downgradient	15	Alluvium	17.8 - 22.5	25,100	1,330 J+	33,300	----	<18.5	<1.03	58	21.4	<0.19
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	24,500	1,850 J+	38,900	----	<18.5	<1.03	47	24.8	<0.19
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	25,000	1,440 J+	35,700	----	<18.5	<1.03	51.3	23.7	<0.19
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	23,700	1,350 J+	40,000	----	<18.5	<1.03	53.7	26 J+	<0.19
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	23,400	1,310	34,300	----	<18.5	<1.03	56.7	22.9	<0.19
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	23,900	1,400 J+	34,300	----	<18.5	<1.03	55.6	24.1	<0.19
ZTS-MW197	9/17/2024	N	PM06	2A	Downgradient	55	Alluvium	12.8 - 22.5	24,800	1,250 J+	35,400	----	<18.5	<1.03	54.1	21.7	<0.19
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	24,100	1,920 J+	39,700	----	<18.5	<1.03	56.4	25.9	<0.19
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	23,600	1,390	42,900	----	<18.5	<1.03	54.4	22.3	<0.19
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	21,700	1,460 J+	38,800	----	<18.5	<1.03	49.8	21.7 J+	<0.19
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	19,800	3,700	30,300	----	<18.5	<1.03	57.1	24.8	<0.19
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	23,700	1,050 J+	36,900	----	<18.5	<1.03	57.9	21.9	<0.19
ZTS-MW113	9/19/2024	N	PM06	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	23,100	1,220 J+	36,000	----	<18.5	<1.03	47	16.5	<0.19
Test Area 2B																	
Pre-Construction Baseline Results																	
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	17,600	1,050 J+	28,300	799,000	<18.5	<1.03	77.1	12.9	<0.19
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	23,800	<102	29,500	303,000	<18.5	<1.03	39	23.5	<0.19
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	23,900	<102	29,000	303,000	<18.5	<1.03	37.9	23.1	<0.19
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	21,200	1,540 J+	36,000	768,000	<18.5	<1.03	50.3	28.9	<0.19
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	18,200	<102	28,000	862,000	<18.5	<1.03	78.1	13.1	<0.19
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	25,000	1,680 J+	32,400	388,000	<18.5	<1.03	8.02	38.5	<0.19
Post-Construction Performance Monitoring Results																	

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	20,400	740 J	30,400	----	78.2 J	<1.03	82.5	10.6	<0.19
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	20,300	451 J	27,800	----	<18.5	<1.03	82.1	9.14	<0.19
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	19,300	747 J	30,200	----	<18.5	2 J	83.1	10.1	<0.19
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	19,400	548 J	24,300	----	<18.5	<1.03	87.2	9.95	<0.19
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	20,500	414 J	24,300	----	<18.5	<1.03	76.5	9.5	<0.19
ZTS-MW133	9/17/2024	N	PM06	2B	Upgradient	-9	UMCf	54.0 - 69.0	20,000 J-	358 J	26,600	----	<18.5	<1.03	80	9.94	<0.19
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	23,600	758 J	21,200	----	25.2 J	<1.03	7.33	52.4	<0.19
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	16,800	874 J	27,700	----	<18.5	<1.03	7.12	25.1	<0.19
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	12,000	378 J	23,600	----	138	1.95 J	17.7	45.8	23.1
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	12,300	226 J	20,000	----	<18.5	<1.03	12.5	16.9	<0.19
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	12,300	441 J	21,400	----	<18.5	<1.03	12.9	17.1	<0.19
ZTS-MW117	9/17/2024	N	PM06	2B	Upgradient	-2	UMCf	40.5 - 55.5	12,500	484 J	21,000	----	<18.5	<1.03	11.4	17.3	<0.19
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	24,400	1,250	36,300	----	<18.5	<1.03	51	22.6	<0.19
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	22,100	1,240	41,200	----	<18.5	<1.03	54.9	21.6	<0.19
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	21,000	1,140 J+	37,700	----	<18.5	1.18 J	50.8	21	<0.19
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	17,600	521 J	31,700	----	<18.5	<1.03	40.2	20.4	<0.19
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	22,100	1,260 J+	37,100	----	<18.5	2.27 J	54.6	20.9	<0.19
ZTS-MW134	9/19/2024	N	PM06	2B	Upgradient	-2	UMCf	26.0 - 36.0	22,500	1,400	32,700	----	<18.5	5.95	49.6	21	<0.19
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	20,600	1,500 J+	25,900	----	<18.5	<1.03	13.7	30.4	<0.19
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	16,800	725 J	30,600	----	<18.5	<1.03	14.4	21.4	<0.19
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	13,300	536 J	29,200	----	<18.5	<1.03	13.1	19.3	<0.19
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	11,700	248 J	24,200	----	<18.5	<1.03	11.4	15.2	<0.19
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	13,300	577 J	24,700	----	21.8 J	<1.03	10.2	16.9	<0.19
ZTS-MW198	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	26.1 - 46.0	12,900 J-	377 J	23,600	----	<18.5	<1.03	12.8	13.1	<0.19
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	4,160 J+	1,070 J+	952	----	<18.5	<1.03	0.503 J	30.9	<0.19
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	3,990 J+	1,130 J+	956	----	<18.5	<1.03	0.486 J	31.3	<0.19
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	2,510 J+	502 J	1,020	----	<18.5	<1.03	1.12 J	28.2	<0.19
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	3,240	927 J	842	----	<18.5	1.18 J	2.82	27.6	<0.19
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	1,670	536 J	782	----	<18.5	1.27 J	2.63	24.4	<0.19
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	1,540 J-	430 J	615	----	<185	<10.3	3.06 J	23.1	<1.9
ZTS-MW200	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	1,120	555 J	740	----	<18.5	<1.03	3.71	21.3	<0.19
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	25,200	742 J	30,600	----	<18.5	1.11 J	32.6	31.8	<0.19
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	19,400	657 J	28,600	----	<18.5	<1.03	39.7	19.2	<0.19
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	18,800	458 J	27,100	----	<18.5	1.35 J	41.7	20	<0.19
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	17,900	355 J	25,900	----	<18.5	<1.03	33.3	18.1	<0.19
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	18,100	342 J	26,300	----	<18.5	<1.03	41.4	18.6	<0.95
ZTS-MW201	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	27.1 - 47.0	19,800	545 J	25,100	----	<18.5	<1.03	69	13.1	<0.19
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	26,000	775 J	28,300	----	28.9 J	<1.03	89.4	21.9	<0.19
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	20,600	443 J	27,900	----	<18.5	<1.03	70.5	13.3	<0.19
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	20,800	356 J	25,600	----	<18.5	<1.03	85.9	13.7	<0.19
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	20,000	379 J	24,200	----	<18.5	<1.03	76.3	12.6	<0.19
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	20,400	229 J	24,700	----	<18.5	<1.03	78.9	12.4	<0.95
ZTS-MW206	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	20,300	441 J	24,800	----	<18.5	<1.03	86	9.95	<0.19
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	20,800	1,240 J+	27,200	----	<18.5	<1.03	99.9	16.1	<0.19
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	20,000	560 J	28,200	----	<18.5	<1.03	71.1	9.71	<0.19
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	20,900	421 J	26,000	----	27.9 J	<1.03	80.6	11.7	<0.19
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	19,400	314 J	26,000	----	<18.5	<1.03	83	10.7 J+	<0.19
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	19,900	437 J	26,800	----	<185	<10.3	84	12 J	<1.9
ZTS-MW199	9/19/2024	N	PM06	2B	Downgradient	5	UMCf	50.1 - 65.0	20,100	555 J	25,600	----	<18.5	<1.03	81.5	10.6	<0.19
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	31,900	868 J	29,800	----	<18.5	<1.03	20.8	37	<0.19
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	30,800	901 J	32,900	----	<18.5	<1.03	23.5	40.7	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	26,000	643 J	33,000	----	<18.5	<1.03	13.6	23.2	<0.19
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	26,000	792 J	33,500	----	20.7 J	<1.03	13.6	23.7	<0.19
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	23,700	889 J	33,200	----	<18.5	<1.03	16.1	19.4	<0.19
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	20,600	979 J	33,300	----	<18.5	<1.03	15.1	20.6	<0.19
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	22,600	397 J	29,100	----	<18.5	<1.03	20	15.3	<0.19
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	22,800	424 J	29,300	----	<18.5	<1.03	19.7	16.4	<0.19
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	22,200	634 J	31,600	----	<18.5	<1.03	22.8	17.3	<0.19
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	22,200	609 J	31,500	----	<18.5	<1.03	24.7	17.2	<0.19
ZTS-MW207	9/17/2024	N	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	21,700	666 J	31,000	----	<18.5	<1.03	30.2	18	<0.19
ZTS-MW207	9/17/2024	FD	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	21,500	609 J	30,700	----	<18.5	1.36 J	30.2	18	<0.19
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	22,300	934 J	30,300	----	<18.5	<1.03	114	13.6	<0.19
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	20,700	652 J	32,200	----	<18.5	<1.03	96.4	12.1	<0.19
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	18,300	570 J	29,300	----	<18.5	<1.03	83.8	10 J+	<0.19
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	19,400	283 J	25,600	----	<18.5	<1.03	83.8	9.93	<0.19
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	19,600	502 J	27,500	----	<18.5	<1.03	78.8	10.9	<0.19
ZTS-MW135	9/17/2024	N	PM06	2B	Downgradient	7	UMCf	54.0 - 69.0	21,200	482 J	26,800	----	<18.5	<1.03	86.4	11.2	<0.19
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	26,400	681 J	33,200	----	<18.5	<1.03	6.79	20.1	<0.19
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	24,600	690 J	34,300	----	<18.5	<1.03	6.76	20.5	<0.19
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	24,200	461 J	35,000	----	<18.5	<1.03	3.56	19.6	<0.19
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	25,200	456 J	35,400	----	<18.5	<1.03	3.8	19.7	<0.19
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	20,600	472 J	33,500	----	<18.5	<1.03	4.47	18.3	<0.19
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	22,400	414 J	33,500	----	<18.5	<1.03	4.54	18.2	<0.19
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	22,500	333 J	29,500	----	<18.5	<1.03	5.07	16.5	<0.19
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	22,600	264 J	29,500	----	<18.5	<1.03	5.18	15.9	<0.19
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	23,800	270 J	29,500	----	<18.5	<1.03	6.04	17.5	<0.95
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	23,700	279 J	29,500	----	<18.5	<1.03	6.24	17.6	<0.95
ZTS-MW136	9/12/2024	N	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	22,100	1,020 J+	29,000	----	<18.5	<1.03	5.61	17.4	<0.19
ZTS-MW136	9/12/2024	FD	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	23,900	932 J	29,200	----	<18.5	<1.03	5.5	17.7	<0.19
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	24,000	1,200	37,000	----	<18.5	<1.03	46.6	19.9	<0.19
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	22,900	1,490 J+	38,400	----	19.7 J	<1.03	54.6	20.4	<0.19
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	23,600	869 J	33,600	----	<18.5	<1.03	50.7	18.5	<0.19
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	22,200	757 J	32,500	----	<18.5	<1.03	33.5	19.4	<0.19
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	23,000	1,360 J+	35,700	----	<18.5	<1.03	44.9	18.6	<0.19
ZTS-MW208	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	26.1 - 46.0	22,200	783 J	30,600	----	<18.5	<1.03	43.6	15.9	<0.19
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	20,800	406 J	27,400	----	<18.5	<1.03	120	10.4	<0.19
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	20,200	594 J	29,800	----	<18.5	<1.03	93.8	9.92	<0.19
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	16,600	527 J	29,000	----	20.1 J	<1.03	86.7	10	<0.19
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	19,600	265 J	25,300	----	<18.5	<1.03	82.9	9.36	<0.19
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	19,800	767 J	25,600	----	<18.5	<1.03	76.1	9.89	<0.19
ZTS-MW209	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	50.6 - 65.5	20,800	444 J	25,300	----	<92.5	<5.15	80.2	10.2	<0.95
Test Area 2C																	
Pre-Construction Baseline Results																	
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	22,300 J	1,370	41,400	795,000	<18.5	<1.03	53.4	32.1	<0.19
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	22,900	1,850 J+	21,200 J	2,980 J	<18.5	<1.03	55.6	28.9	<0.19
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	22,100	1,620 J+	40,200 J	800,000 J	<18.5	<1.03	53.3	29.2	<0.19
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	24,800 J-	3,430 J+	3,830	73,800	<18.5	<1.03	45.8	30.9	<0.19
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	22,100	1,150	41,000	788,000	<18.5	<1.03	56.4	29.5	<0.19
LVWPS-MW102A	10/21/2022	N	BL02	2C	Downgradient	30	UMCf	47.0 - 66.6	19,200	<102	28,000	1,630,000	<18.5	<1.03	71.1	11.2	<0.19
LVWPS-MW102B	10/21/2022	N	BL02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	18,900	2,650	<1,400	9,820,000	<18.5	<103	<0.18	<38.1	<0.19
Post-Construction Performance Monitoring Results																	

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	24,500	1,560	40,400	----	<18.5	<1.03	54.2	23.5	<0.19
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	24,400	1,130	40,300	----	<18.5	<1.03	54.5	23.9	<0.19
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23,500	1,530	40,800	----	<18.5	<1.03	53.9	23.7	<0.19
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23,000	1,340	40,700	----	<18.5	<1.03	53.9	24.7	<0.19
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	24,100	1,490 J+	42,000	----	<18.5	2.03 J	53.5	23.2	<0.19
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	24,700	1,510 J+	42,200	----	<18.5	<1.03	52.1	23.3	<0.19
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23,000	1,420 J+	34,400	----	<18.5	<1.03	51.9	22.9	<0.19
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	22,800	1,500 J+	34,100	----	<18.5	<1.03	51.7	21.6	<0.19
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	24,400	1,560 J+	36,900	----	<18.5	<1.03	52.6	21.8	<0.19
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	24,200	1,530 J+	36,900	----	<18.5	<1.03	52.7	22.2	<0.19
ZTS-MW140	9/11/2024	N	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23,700	1,230 J+	34,500	----	21.7 J	<1.03	50.3	22.4	<0.19
ZTS-MW140	9/11/2024	FD	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	23,600	1,140 J+	34,400	----	23.4 J	<1.03	50.5	21.8	<0.19
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	25,000	1,200	38,800	----	<18.5	<1.03	53.5	24.8	<0.19
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	23,300	1,370	40,600	----	<18.5	<1.03	54.3	24.6	<0.19
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	25,100	1,410 J+	41,500	----	<18.5	<1.03	54.5	23.5	<0.19
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	23,100	1,250 J+	34,100	----	<18.5	<1.03	53.2	21.6	<0.19
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	23,800	1,510 J+	37,000	----	<18.5	<1.03	53.4	22.3	<0.19
ZTS-MW119	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	15.0 - 25.0	23,700	1,100 J+	34,300	----	<18.5	<1.03	51.4	22.1	<0.19
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	25,300	1,360	40,500	----	<18.5	<1.03	42.5	28.3	<0.19
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	24,200	1,270 J+	41,700	----	<18.5	<1.03	44.7	28.6	<0.19
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	25,000	1,330	32,700	----	<18.5	<1.03	53.6	22.9	<0.19
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23,900	1,400	39,700	----	<18.5	1.85 J	43.1	24.8	<0.19
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23,500	1,570 J+	37,300	----	<18.5	<1.03	43.9	23.5	<0.19
ZTS-MW181	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23,600	1,050 J+	34,800	----	<18.5	<1.03	41.5	24.1	<0.19
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23,000	1,770 J+	36,000	----	<18.5	<1.03	53.6	26	<0.19
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	22,900	1,270 J+	40,300	----	<18.5	<1.03	53.6	25.4	<0.19
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23,300	1,340	31,900	----	<18.5	<1.03	43.6	25.6	<0.19
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23,000	1,010 J+	33,700	----	<18.5	<1.03	59.6	23.6	<0.19
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23,300	1,340 J+	36,200	----	<18.5	<1.03	55.4	24.6	<0.19
ZTS-MW188	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	23,300	1,010 J+	34,100	----	<18.5	<1.03	52.7	21.9	<0.19
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	27,900 J-	726 J	35,200	----	<18.5	<1.03	23.2	39.1	<0.19
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	26,300	588 J	37,400	----	<18.5	<1.03	23.5	40.7	<0.19
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	24,100	917 J	35,800	----	23.5 J	<1.03	20.2	34.5	<0.19
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	24,700	831 J	31,700	----	<18.5	1.52 J	16.7	30	<0.19
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	26,200	927 J	34,700	----	<18.5	<1.03	15.3	28.5	<0.19
ZTS-MW204	9/11/2024	N	PM06	2C	Upgradient	-3	UMCf	30.3 - 40.0	26,300	209 J	31,800	----	<18.5	<1.03	11.1	26.2	<0.19
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	17,900	3,300	25,000	----	32.8 J	<1.03	24.1	35.5	<0.19
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	16,000 J-	1,460 J+	24,700	----	<18.5	<1.03	25.4	31.5	<0.19
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	19,900 J-	1,290	31,900	----	<18.5	<1.03	34.3	26.9	<0.19
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	21,000	1,100	28,500	----	<18.5	<1.03	30.6	26.1	<0.19
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	20,300 J-	1,360 J+	30,500	----	<18.5	<1.03	36.1	24.8	<0.19
ZTS-MW182	9/6/2024	N	PM06	2C	Center of Array	0	Alluvium	17.6 - 27.3	21,300 J-	1,450 J+	28,400	----	<18.5	<1.03	32.6	25.5	<0.19
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	23,000	1,280 J+	32,800	----	<18.5	<1.03	31	29.5	<0.19
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	20,200	1,610 J+	33,200	----	<18.5	<1.03	37	23.9	<0.19
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	24,700	1,440 J+	39,700	----	<18.5	<1.03	46.1	24	<0.19
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	24,300	1,190 J+	34,800	----	34.7 J	6.87 J+	50.7	22	<0.19
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	22,800	1,190 J+	32,100	----	<18.5	<1.03	43.3	25.3	<0.19
ZTS-MW183	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	17.3 - 27.0	24,700	1,340 J+	33,500	----	<18.5	<1.03	43.5	23.7	<0.19
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	19,700	1,280 J+	33,400	----	<18.5	<1.03	39.8	34.1	<0.19
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	22,300	1,300 J+	34,900	----	<18.5	<1.03	47.3	28.1	<0.19

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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/SM5310B/5310 C-2000	SW9060A/SM5310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	21,300	1,360 J+	36,200	----	<18.5	<1.03	47	24.3	<0.19
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	22,400	1,150 J+	33,300	----	<18.5	<1.03	45.2	23.9	<0.19
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	20,800	1,270 J+	31,700	----	<18.5	<1.03	42.1	30.1	<0.19
ZTS-MW187	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	15.3 - 25.0	23,000	1,290 J+	31,200	----	<18.5	<1.03	41.3	25.3	<0.19
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	25,600	1,390	37,500	----	<18.5	<1.03	51.4	24.3	<0.19
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	24,400	1,330 J+	38,300	----	<18.5	<1.03	51.3	26.7	<0.19
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	23,900	1,340 J+	39,400	----	<18.5	<1.03	55.4	24	<0.19
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	23,200	1,360 J+	34,000	----	<18.5	<1.03	52.3	21.3	<0.19
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	23,900	1,460 J+	35,300	----	<18.5	<1.03	42.5	29.5	<0.19
ZTS-MW141	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	14.5 - 24.5	24,800	1,180	35,500	----	<18.5	<1.03	44.9	26.3	<0.19
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	22,500	1,690 J+	36,400	----	<18.5	<1.03	41.4	26.6	<0.19
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	20,700	1,210	39,500	----	<18.5	<1.03	48.4	30.9	<0.19
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	21,800	1,310 J+	36,400	----	<18.5	<1.03	43.2	28.7 J+	<0.19
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	22,700	1,150 J+	33,000	----	<18.5	<1.03	48.7	23.6	<0.19
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	22,400	1,120 J+	35,700	----	<18.5	<1.03	51.1	25.5	<0.19
ZTS-MW142	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	16.0 - 26.0	22,000	1,220	35,900	----	<18.5	<1.03	43.9	25.3	<0.19
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	22,800	1,170 J+	38,400	----	<18.5	<1.03	42	28.2	<0.19
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	22,000	1,430 J+	36,700	----	<18.5	<1.03	37	25.2	<0.19
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	25,600	1,550 J+	41,200	----	<18.5	<1.03	46.8	29	<0.19
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	24,500	1,370 J+	35,500	----	<18.5	<1.03	46	22.5	<0.19
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	24,000	1,090 J+	32,900	----	<18.5	<1.03	45.4	28.1	<0.19
ZTS-MW184	9/6/2024	N	PM06	2C	Downgradient	5	Alluvium	16.3 - 26.0	25,200	1,460 J+	33,700	----	<18.5	<1.03	42	26.7	<0.19
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	30,000	262 J	32,700	----	<18.5	1.43 J	8.83	29.6	<0.19
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	28,300	351 J	32,900	----	<18.5	<1.03	10.5	30.7	<0.19
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	27,000	519 J	33,300	----	<18.5	<1.03	6.07	27.7	<0.19
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	25,100	586 J	30,500	----	<18.5	<1.03	11	30	<0.19
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	28,100	154 J	31,500	----	<18.5	<1.03	4.77	28.1	<0.19
ZTS-MW205	9/9/2024	N	PM06	2C	Downgradient	5	UMCf	30.3 - 40.0	27,200	237 J	32,300	----	<18.5	<1.03	4.73	23.5	<0.19
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	25,800	2,060	37,200	----	<18.5	<1.03	46.1	28.1	<0.19
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	24,300	1,460	41,100	----	<18.5	<1.03	51.5	27.6	<0.19
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	24,000	1,400 J+	39,400	----	<18.5	<1.03	48.9	23.6 J+	<0.19
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	22,900	1,220 J+	33,700	----	<18.5	<1.03	54.7	21.5	<0.19
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	23,400	1,060 J+	36,700	----	<18.5	<1.03	49.7	22.5	<0.19
ZTS-MW185	9/10/2024	N	PM06	2C	Downgradient	15	Alluvium	15.3 - 25.0	25,500	986 J	35,800	----	<18.5	<1.03	39.6	24.5	<0.19
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	25,700	1,170	36,200	----	<18.5	<1.03	42.5	26.1	<0.19
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	25,200	1,350	42,500	----	<18.5	<1.03	48.7	26.6	<0.19
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	24,500	1,330 J+	40,400	----	<18.5	<1.03	45.2	23.3 J+	<0.19
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	24,200 J-	1,070 J+	34,400	----	<18.5	<1.03	52.6	24.3	<0.19
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	23,800	1,050 J+	36,800	----	<18.5	<1.03	46.6	22.5	<0.19
ZTS-MW186	9/10/2024	N	PM06	2C	Downgradient	25	Alluvium	15.3 - 25.0	25,000	1,240 J+	36,600	----	<18.5	<1.03	45	26	<0.19
LVWPS-MW102A	5/30/2023	N	PM01	2C	Downgradient	30	UMCf	47.0 - 66.6	21,200	1,080 J+	26,200	----	<18.5	<1.03	70.1	10.3	<0.19
LVWPS-MW102A	8/23/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	19,600	706 J	27,900	----	<18.5	<1.03	74.1	10.1	<0.19
LVWPS-MW102A	10/11/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	2C	Downgradient	30	UMCf	47.0 - 66.6	19,800	932 J	28,300	----	<18.5	1.19 J	70.4	9.62	<0.19
LVWPS-MW102A	2/27/2024	N	PM04	2C	Downgradient	30	UMCf	47.0 - 66.6	18,800	762 J	29,200	----	<18.5	<1.03	73	11.1	<0.19
LVWPS-MW102A	5/23/2024	N	PM05	2C	Downgradient	30	UMCf	47.0 - 66.6	20,200	868 J	27,400	----	<18.5	<1.03	69.5	10.7	<0.19
LVWPS-MW102A	9/17/2024	N	PM06	2C	Downgradient	30	UMCf	47.0 - 66.6	20,400	684 J	26,000	----	<18.5	<1.03	65.8	10.2	<0.19
LVWPS-MW102B	5/26/2023	N	PM01	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	19,900	4,050	4,960	----	<18.5	<51.5	0.661 J	27.3 J	<0.19
LVWPS-MW102B	8/23/2023	N	PM02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	19,400	3,240	4,430	----	<185	<10.3	<1.8	22	<1.9
LVWPS-MW102B	12/1/2023	N	PM03	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	19,600	3,860 J+	4,810	----	<185	<10.3	<1.8	20.6 J+	<1.9

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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/SM5 310B/5310 C-2000	SW9060A/SM5 310B/5310 C-2000	Dissolved Metals by SW6010B	Dissolved Metals by SW6010B	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020	Dissolved Metals by SW6020
									Total Inorganic Carbon	Total Organic Carbon	Silicon	Sulfur	Aluminum	Antimony	Arsenic	Barium	Beryllium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW102B	2/27/2024	N	PM04	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	18,400	3,390	4,690	----	<18.5	<10.3	0.548 J	22.7	<1.9
LVWPS-MW102B	5/23/2024	N	PM05	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	20,100	3,400 J+	4,720	----	<18.5	<1.03	0.476 J	29.6	<0.19
LVWPS-MW102B	9/17/2024	N	PM06	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	20,400	3,120 J+	4,240	----	<185	<10.3	<1.8	20.8 J+	<1.9
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	24,000	2,230	38,900	----	<18.5	<1.03	51.4	29.3	<0.19
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	23,800	1,340 J+	39,700	----	<18.5	<1.03	56.4	29	<0.19
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	22,600	1,510 J+	38,800	----	<18.5	<1.03	58.7	26.3	<0.19
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	23,300	1,060 J+	33,600	----	<18.5	<1.03	57.1	27.4	<0.19
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	23,900	1,030 J+	31,900	----	<18.5	<1.03	53.1	24.9	<0.19
ZTS-MW189	9/10/2024	N	PM06	2C	Downgradient	55	Alluvium	12.8 - 23.0	24,500	1,110 J+	36,300	----	<18.5	<1.03	51.4	22.6	<0.19
General Vicinity																	
Pre-Construction Baseline Results																	
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	21,300	6,160 J+	3,370	77,700	<18.5	<1.03	51.7	14.7	<0.19
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	22,000	<102 UJ	3,160	69,700	<18.5	<1.03	23.4	27.8	<0.19
Post-Construction Performance Monitoring Results																	
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	22,400	1,090 J+	36,600	----	<18.5	<1.03	54.7	15.1	<0.19
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	21,700	745 J	37,300	----	<18.5	<1.03	53.6	14.5	<0.19
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	21,500	858 J	36,400	----	24.7 J	<1.03	55.3	14.3	<0.19
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	20,100	676 J	37,200	----	<18.5	<1.03	56.3	16.1	<0.19
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	22,200	625 J	30,000	----	<18.5	<1.03	53.2	13.8	<0.19
ZTS-MW116	9/12/2024	N	PM06	NA	NA	NA	UMCf	33.0 - 48.0	20,700	1,230 J+	32,000	----	<18.5	<1.03	53.2	15	<0.19
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	22,900	911 J	38,100	----	<18.5	<1.03	35.2	20.5	<0.19
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	22,600	1,100 J+	36,600	----	<18.5	<1.03	40.8	17.2	<0.19
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	21,700	1,190 J+	39,300	----	<18.5	<1.03	42.3	15.4	<0.19
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	21,100 J-	1,070 J+	35,900	----	<18.5	<1.03	38.4	19	<0.19
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	22,200	757 J	34,400	----	194	<1.03	43.1	18	<0.19
ZTS-MW128	9/12/2024	N	PM06	NA	NA	NA	UMCf	42.0 - 52.0	21,200	1,480 J+	26,200	----	<18.5	<1.03	42.6	14.6	<0.19

Notes:
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 the sample.
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 may or may not be present in the sample.
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
< The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
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
PM05 Hydrogen samples cancelled with lab due to instrument failure.

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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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	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	2,070	<0.15	641,000	34.1	<0.0596	<1.51	<28.1	<0.849	246,000
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	545,000	31.6	----	----	<28.1	----	----
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	544,000	30.8	----	----	<28.1	----	----
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	2,370 J	<0.15	574,000 J	32.2 J	<0.0596	<1.51	<28.1	<0.849	205,000 J
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	59.6 J	<0.15	47,400 J	<1.24 UJ	<0.0596	<1.51	<28.1	<0.849	11,300 J
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	466,000	16.1	----	----	<28.1	----	----
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	1,560 J+	<0.15	199,000	<1.24	<0.0596	<1.51	<28.1	<0.849	142,000
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	2,310	<0.15	717,000	25.2	<0.0596	<1.51	<28.1	<0.849	272,000
Post-Construction Performance Monitoring Results																	
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	2,490	<0.15	637,000	29.5	0.654 J	5.4	<28.1	<0.849	239,000
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	2,320	<0.15	605,000	34	0.624 J	<1.51	<28.1	<0.849	234,000
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	2,640	<0.15	613,000	29.9	0.68 J	<1.51	<28.1	<0.849	246,000
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	2,790	<0.15	638,000	49.2	0.73 J	1.72 J	<28.1	<0.849	275,000
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	2,540	<0.15	605,000	32.2	0.718 J	<1.51	<28.1	<0.849	237,000
ZTS-MW143	9/13/2024	N	PM06	1A	Upgradient	-50	Alluvium	23.0 - 33.0	2,410	<0.15	612,000	32.8	0.625 J	1.67 J	<28.1	<0.849	240,000
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	1,920	<0.15	545,000	30.4	0.516 J	1.59 J	<28.1	<0.849	206,000
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	2,050	<0.15	538,000	30.3	0.504 J	<1.51	<28.1	<0.849	201,000
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	1,960	<0.15	566,000	342	1.69 J	3.31 J	1,330 J-	<0.849	227,000
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	2,440	<0.15	637,000	31.2	0.613 J	<1.51	30.1 J	<0.849	236,000
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	2,210	<0.15	523,000	31.3	0.529 J	<1.51	<28.1	<0.849	205,000
ZTS-MW124R	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.5 - 34.0	1,890	<0.15	553,000	35.1	0.577 J	1.62 J	<28.1	<0.849	213,000
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	1,380	<0.15	174,000	<1.24	0.0621 J	1.85 J	<28.1	<0.849	147,000
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	1,490 J+	<0.15	256,000	<1.24	0.214 J	<1.51	206	<0.849	162,000
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	1,570	<0.15	285,000	<1.24	0.196 J	<1.51	228 J+	<0.849	162,000
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	1,240	<0.15	209,000	<1.24	<0.0596	6.17	326	<0.849	169,000
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	1,670	<0.15	250,000	<1.24	0.191 J	<1.51	205	<0.849	174,000
ZTS-MW125	9/16/2024	N	PM06	1A	Upgradient	-8	UMCf	40.0 - 50.0	210	<0.15	74,000	<1.24	0.0709 J	<1.51	<28.1	<0.849	31,600
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,130	<0.15	556,000	31.5	0.584 J	2.38 J	38.2 J	<0.849	211,000
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,350	<0.15	551,000	31	0.529 J	<1.51	<28.1	<0.849	216,000
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,290	<0.15	632,000	33.4	0.556 J	<1.51	38.2 J	<4.24	232,000
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,430	<0.15	638,000	36.1	0.651 J	<1.51	<28.1	<0.849	240,000
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,270	<0.15	571,000	33	0.72 J	3.28 J	<28.1	<0.849	234,000
ZTS-MW153	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,110	<0.15	576,000	31	0.661 J	2.69 J	<28.1	<0.849	235,000
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,200	<0.15	573,000	33.9	0.576 J	2.33 J	<28.1	<0.849	234,000
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,380	<0.15	548,000	32.2	0.548 J	4.96 J	<28.1	<0.849	215,000
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,360	<0.15	613,000	35.7	0.562 J	<1.51	<28.1	<0.849	242,000
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,390	<0.15	610,000	41.4	0.608 J	<1.51	<28.1	<0.849	238,000
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,330	<0.15	586,000	37.3	0.6 J	2.86 J	<28.1	<0.849	240,000
ZTS-MW163	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2,140	<0.15	570,000	37.2	0.556 J	<1.51	<28.1	<0.849	221,000
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	1,770	<0.15	474,000	<1.24	0.206 J	<1.51	5,450	<0.849	203,000
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,040	<0.15	482,000	<1.24	0.27 J	<1.51	2,550	<0.849	218,000
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,000	<0.15	551,000	<1.24	0.302 J	<1.51	2,320	<0.849	237,000
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,480	<0.15	545,000	<1.24	0.302 J	<1.51	2,190	<0.849	233,000
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,110	<0.15	484,000	<1.24	0.349 J	<1.51	2,030	<0.849	206,000
ZTS-MW150	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	24.3 - 34.0	2,170	<0.15	515,000	<1.24	0.327 J	<1.51	<28.1	<0.849	224,000
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,130	<0.15	509,000	<1.24	0.215	<1.51	<28.1	<0.849	225,000
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,070	<0.15	490,000	<1.24	0.24 J	<1.51	4,590	<0.849	231,000
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,280	<0.15	560,000	<1.24	0.246 J	<1.51	3,960	<0.849	246,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	<0.15	546,000	<1.24	0.263 J	8.5	2,540	<0.849	244,000
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	1,990	<0.15	531,000	<1.24	0.305 J	<1.51	669	<8.49	230,000
ZTS-MW154	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,230	<0.15	508,000	<1.24	0.238 J	<1.51	<28.1	<0.849	224,000
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,140	<0.15	524,000	<1.24	0.451 J	<1.51	1,080	<0.849	232,000
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,180	<0.15	526,000	<1.24	0.44 J	<1.51	1,160	<0.849	228,000
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,170	<0.15	534,000	<1.24	0.33 J	<1.51	1,090	0.894 J	224,000
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,100	<0.15	538,000	<1.24	0.299 J	<1.51	1,140	<0.849	234,000
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,230	<0.15	578,000	<1.24	0.419 J	<1.51	546	<0.849	253,000
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,190	<0.15	576,000	<1.24	0.376 J	<1.51	594	<0.849	256,000
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	<0.15	551,000	<1.24	0.325 J	<1.51	585	<0.849	248,000
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	<0.15	549,000	<1.24	0.34 J	6.1	651	<0.849	239,000
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,100	<0.15	525,000	<1.24	0.258 J	<1.51	1,170	<0.849	225,000
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,220	<0.15	534,000	<1.24	0.287 J	<1.51	1,180	<0.849	229,000
ZTS-MW164	9/6/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,340	<0.15	570,000	<1.24	0.213 J	8.74	<28.1	<0.849	248,000
ZTS-MW164	9/6/2024	FD	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	2,300	<0.15	576,000	<1.24	0.246 J	8.39	<28.1	<0.849	236,000
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	2,030	<0.15	558,000	<1.24	0.536 J	<1.51	<28.1	<0.849	215,000
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	2,090	<0.15	559,000	<1.24	0.442 J	<1.51	<28.1	<0.849	230,000
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	2,360	<0.15	629,000	<1.24	0.471 J	<1.51	<28.1	<0.849	239,000
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	----	<0.15	625,000	<1.24	0.534 J	2.17 J	<28.1	<0.849	247,000
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	2,240	<0.15	596,000	<1.24	0.539 J	<1.51	<28.1	<0.849	228,000
ZTS-MW151	9/11/2024	N	PM06	1A	Downgradient	5	Alluvium	24.3 - 34.0	2,110	<0.15	599,000	<1.24	0.748 J	<1.51	<28.1	<0.849	223,000
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,140	<0.15	575,000	<1.24	4.51	<1.51	<28.1	<0.849	237,000
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,300	<0.15	567,000	<1.24	4.29	<1.51	<28.1	<0.849	238,000
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,300	<0.15	555,000	<1.24	0.965 J	<1.51	<28.1	<0.849	239,000
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,360	<0.15	590,000	<1.24	0.968 J	<1.51	<28.1	<0.849	254,000
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,480	<0.15	610,000	<1.24	0.805 J	<1.51	<28.1	<0.849	245,000
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,540	<0.15	683,000	<1.24	0.899 J	<1.51	<28.1	<0.849	266,000
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,620	<0.15	603,000	<1.24	0.792 J	2.38 J	<28.1	<0.849	268,000
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,790	<0.15	610,000	<1.24	0.776 J	<1.51	<28.1	<0.849	276,000
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,220	<0.15	612,000	<1.24	0.856 J	<1.51	<28.1	<4.24	255,000
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,260	<0.15	609,000	<1.24	0.891 J	<1.51	<28.1	<4.24	249,000
ZTS-MW155	9/10/2024	N	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,360 J+	<0.15	578,000	<1.24	1.01 J	<1.51	<28.1	<0.849	259,000
ZTS-MW155	9/10/2024	FD	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	2,430 J+	<0.15	580,000	<1.24	0.972 J	<1.51	<28.1	<0.849	254,000
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	1,380	<0.15	157,000	<1.24	<0.0596	<1.51	<28.1	<0.849	167,000
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	1,330	<0.15	174,000	<1.24	0.0696 J	<1.51	78.3 J	<0.849	184,000
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	1,400	<0.15	160,000	<1.24	<0.0596	<1.51	62.8 J	<0.849	158,000
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	1,420	<0.15	186,000	<1.24	0.0682 J	<1.51	85.1 J	<0.849	197,000
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	1,640	<0.15	248,000	<1.24	0.149 J	<1.51	76.6 J	<0.849	214,000
ZTS-MW156	9/9/2024	N	PM06	1A	Downgradient	5	UMCf	43.8 - 53.5	1,230	<0.15	163,000	<1.24	<0.0596	<1.51	<28.1	<0.849	172,000
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	2,200	<0.15	537,000	<1.24	1.52 J	2.92 J	44.1 J	<0.849	246,000
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	2,340	<0.15	571,000	<1.24	0.855 J	<1.51	<28.1	<0.849	227,000
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	2,500	<0.15	577,000	<1.24	0.667 J	<1.51	<28.1	<0.849	231,000
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	2,300	<0.15	651,000	<1.24	0.801 J	<1.51	<28.1	<0.849	256,000
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	2,590	<0.15	575,000	<1.24	0.655 J	<1.51	<28.1	<0.849	232,000
ZTS-MW165	9/6/2024	N	PM06	1A	Downgradient	5	Alluvium	22.3 - 32.0	2,250	<0.15	630,000	<1.24	0.855 J	8.52	<28.1	<0.849	235,000
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,100	0.151 J	585,000	<1.24	1.01 J	<1.51	<28.1	<0.849	222,000
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,260	<0.15	550,000	<1.24	0.496 J	<1.51	<28.1	<0.849	232,000
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,530	<0.15	625,000	<1.24	0.743 J	<1.51	<28.1	<0.849	237,000
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	----	<0.15	613,000	<1.24	0.82 J	2.16 J	<28.1	<0.849	250,000
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,350	<0.15	613,000	1.49 J	0.913 J	<1.51	<28.1	0.853 J	251,000
ZTS-MW152	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,430 J+	<0.15	645,000	<1.24	0.856 J	<1.51	<28.1	<0.849	258,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,170	<0.15	544,000	<1.24	2.76	1.82 J	28.9 J	<0.849	237,000
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,410	<0.15	570,000	<1.24	1.06 J	<1.51	<28.1	<0.849	259,000
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,270	<0.15	582,000	<1.24	0.755 J	<1.51	<28.1	<0.849	237,000
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,870	<0.15	607,000	1.92 J	0.623 J	2.45 J	<28.1	<0.849	277,000
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,350	<0.15	580,000	<1.24	0.769 J	<1.51	<28.1	<0.849	247,000
ZTS-MW157	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,510 J+	<0.15	611,000	<1.24	0.923 J	<1.51	<28.1	<0.849	262,000
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,260	<0.15	566,000	<1.24	1.02 J	<1.51	<28.1	<0.849	262,000
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,190	<0.15	581,000	<1.24	0.737 J	<1.51	<28.1	<0.849	248,000
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,680	<0.15	584,000	<1.24	0.649 J	<1.51	<28.1	<0.849	242,000
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,750	<0.15	606,000	<1.24	0.757 J	3.28 J	<28.1	<0.849	270,000
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,630	<0.15	614,000	<1.24	0.768 J	<1.51	31.8 J	<0.849	256,000
ZTS-MW162	9/9/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	2,450	<0.15	628,000	<1.24	0.908 J	4.45 J	<28.1	<0.849	258,000
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	1,930	<0.15	528,000	13.5	0.574 J	2.39 J	<28.1	<0.849	204,000
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	2,290	<0.15	580,000	25.8	0.564 J	<1.51	29.2 J	<0.849	234,000
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	2,450	<0.15	607,000	20.1	0.528 J	<1.51	<28.1	<0.849	217,000
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	2,260	<0.15	748,000	24.3	0.642 J	<1.51	<28.1	<0.849	254,000
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	2,290	<0.15	601,000	29.8	0.642 J	<1.51	<28.1	<0.849	227,000
ZTS-MW149	9/11/2024	N	PM06	1A	Downgradient	25	Alluvium	23.3 - 33.0	2,150	<0.15	586,000	32.2	0.582 J	<1.51	<28.1	<0.849	220,000
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	2,000	<0.15	552,000	3.26	0.623 J	2.09 J	<28.1	<0.849	245,000
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	2,310	<0.15	550,000	2.11	0.546 J	<1.51	45.2 J	<0.849	252,000
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	2,360	<0.15	554,000	2.46	0.508 J	<1.51	<28.1	<0.849	245,000
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	2,320	<0.15	629,000	3.9	0.524 J	<1.51	<28.1	<0.849	268,000
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	2,360	<0.15	567,000	<1.24	0.536 J	<1.51	<28.1	<0.849	246,000
ZTS-MW144	9/11/2024	N	PM06	1A	Downgradient	35	Alluvium	24.0 - 34.0	2,150	<0.15	589,000	2.3	0.534 J	<1.51	<28.1	<0.849	242,000
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	2,170	<0.15	553,000	<1.24	0.401 J	<1.51	<28.1	<0.849	255,000
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	2,220	<0.15	535,000	<1.24	0.489 J	<1.51	<28.1	<0.849	242,000
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	2,410	<0.15	624,000	<1.24	0.553 J	<1.51	<28.1	<0.849	264,000
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	2,490	<0.15	605,000	<1.24	0.481 J	<1.51	<28.1	<0.849	256,000
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	2,300	<0.15	547,000	<1.24	0.567 J	<1.51	<28.1	<4.24	267,000
ZTS-MW158	9/12/2024	N	PM06	1A	Downgradient	50	Alluvium	23.3 - 33.0	2,280	<0.15	609,000	<1.24	0.608 J	8.6	<28.1	<0.849	273,000
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	1,360	<0.15	241,000	1.33 J	0.934 J	2 J	<28.1	<0.849	146,000
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	2,070	<0.15	521,000	14	0.693 J	<1.51	<28.1	<0.849	219,000
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	2,180	<0.15	556,000	17.9	0.605 J	<1.51	<28.1	<0.849	245,000
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	2,280	<0.15	557,000	20.4	0.504 J	<1.51	<28.1	<0.849	234,000
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	2,100	<0.15	461,000	15.4	0.472 J	1.65 J	<28.1	<4.24	229,000
ZTS-MW159	9/12/2024	N	PM06	1A	Downgradient	50	UMCf	38.8 - 48.5	1,890	<0.15	479,000	16.7	0.471 J	7.6	<28.1	<0.849	226,000
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	2,060	<0.15	559,000	10.9	0.509 J	2.57 J	<28.1	<0.849	240,000
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	2,200	<0.15	534,000	13.5	0.521 J	<1.51	<28.1	<0.849	229,000
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	2,410	<0.15	619,000	13.7	0.47 J	<1.51	<28.1	<0.849	261,000
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	2,420	<0.15	612,000	18.9	0.487 J	2.46 J	<28.1	<0.849	247,000
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	2,300	<0.15	601,000	18.7	0.589 J	<1.51	<28.1	<0.849	240,000
ZTS-MW160	9/13/2024	N	PM06	1A	Downgradient	100	Alluvium	23.3 - 33.0	2,240	<0.15	598,000	21.6	0.583 J	<1.51	<28.1	<0.849	238,000
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,080	<0.15	540,000	2.47	0.331 J	1.65 J	<28.1	<0.849	214,000
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,190	<0.15	569,000	7.79	0.438 J	<1.51	<28.1	<0.849	223,000
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,040	<0.15	567,000	6.39	0.445 J	<1.51	<28.1	<0.849	221,000
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,180	<0.15	626,000	6.31	0.461 J	<1.51	<28.1	<0.849	241,000
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,220	<0.15	624,000	6.05	0.463 J	<1.51	<28.1	<0.849	237,000
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,300	<0.15	744,000	10.1	0.482 J	<1.51	<28.1	<0.849	257,000
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,260	<0.15	733,000	10.3	0.482 J	<1.51	<28.1	<0.849	252,000
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,260	<0.15	578,000	10.6	0.479 J	2.26 J	<28.1	<0.849	242,000
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,320	<0.15	566,000	10	0.497 J	<1.51	<28.1	<0.849	233,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW161	9/13/2024	N	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,380	<0.15	598,000	12.5	0.506 J	2.13 J	<28.1	<0.849	240,000
ZTS-MW161	9/13/2024	FD	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	2,420	0.184 J	601,000	11.9	0.533 J	1.97 J	<28.1	<0.849	245,000
Between Test Area 1A and Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1,830 J+	<0.15	355,000	<1.24	<0.0596	<1.51	<28.1	<0.849	208,000
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	2,250 J+	<0.15	436,000	<1.24	<0.0596	<1.51	<28.1	<0.849	270,000
Post-Construction Performance Monitoring Results																	
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	387	<0.15	101,000	1.5 J	<0.0596	5.59	<28.1	<0.849	62,900
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1,400 J+	<0.15	206,000	<1.24	<0.0596	<1.51	126	<0.849	181,000
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1,500	<0.15	198,000	<1.24	<0.0596	<1.51	130	<0.849	193,000
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1,280	<0.15	187,000	<1.24	0.116 J	<1.51	36.7 J	<0.849	169,000
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1,280	<0.15	193,000	<1.24	<0.0596	<1.51	40.5 J	<0.849	175,000
ZTS-MW145	9/16/2024	N	PM06	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	1,210	<0.15	196,000	<1.24	0.308 J	1.66 J	1,490 J-	<0.849	187,000
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,650	<0.15	279,000	<1.24	0.23 J	3.93 J	140	<0.849	259,000
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,750	<0.15	228,000	<1.24	<0.0596	<1.51	132	<0.849	301,000
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,880	<0.15	227,000	<1.24	<0.0596	<1.51	112	<0.849	288,000
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,660	<0.15	238,000	<1.24	<0.0596	<1.51	126 J+	<0.849	335,000
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,790	<0.15	221,000	<1.24	<0.0596	<1.51	110	<0.849	307,000
ZTS-MW146	9/12/2024	N	PM06	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,660	<0.15	234,000	<1.24	<0.0596	9.02	127	<0.849	320,000
Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	2,540	<0.15	691,000	100	<0.0596	<1.51	<28.1	<0.849	264,000
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	----	600,000	43.3	----	----	<28.1	----	----
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	2,460	<0.15	643,000	73.4	<0.0596	<1.51	<28.1	<0.849	255,000
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	2,550	<0.15	696,000	77.8	<0.0596	<1.51	<28.1	<0.849	289,000
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	----	----	632,000	74.4	----	----	<28.1	----	----
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	3,270 J+	<0.15	660,000	74.8	<0.0596	<1.51	<28.1	<0.849	241,000
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	3,220 J+	<0.15	643,000	86.8	<0.0596	<1.51	<28.1	<0.849	244,000
LVWPS-MW107A	10/24/2022	N	BL02	1B	Downgradient	50	Alluvium	24.8 - 34.5	3,330 J+	<0.15	643,000	87.6	<0.0596	<1.51	<28.1	<0.849	248,000
LVWPS-MW107B	10/21/2022	N	BL02	1B	Downgradient	50	UMCf	46.0 - 65.8	1,720	<0.15	257,000	<1.24	<0.0596	<1.51	<28.1	<0.849	387,000
LVWPS-MW107C	10/24/2022	N	BL02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	11,000 J+	<0.15	531,000	<1.24	<0.0596	<1.51	<28.1	<84.9	6,410,000
Post-Construction Performance Monitoring Results																	
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	2,600	<0.15	604,000	86.5	0.683 J	2 J	<28.1	<0.849	243,000
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	2,750	<0.15	632,000	87.3	0.636 J	<1.51	<28.1	<0.849	228,000
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	2,650	<0.15	642,000	101	0.631 J	<1.51	<28.1	<0.849	237,000
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	2,660	<0.15	748,000	93.1	0.579 J	<1.51	51.6 J	<0.849	231,000
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	10,600	<1.5	538,000	<12.4	<0.596	<15.1	<281	<8.49	6,160,000
ZTS-MW147	9/16/2024	N	PM06	1B	Upgradient	-50	Alluvium	19.5 - 29.5	2,330	<0.15	612,000	91.2	0.559 J	<1.51	<28.1	<0.849	217,000
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	2,370	<0.15	591,000	37.6	0.705 J	<1.51	<28.1	<0.849	270,000
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	2,300	<0.15	616,000	38.3	0.63 J	<1.51	<28.1	<0.849	262,000
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	2,720	<0.15	585,000	71	0.673 J	<1.51	<28.1	<0.849	265,000
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	2,580	<0.15	671,000	97.6	0.612 J	1.56 J	31.8 J	<0.849	264,000
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	2,580	<0.15	623,000	48.8	0.654 J	1.96 J	<28.1	<0.849	262,000
ZTS-MW126	9/13/2024	N	PM06	1B	Upgradient	-8	Alluvium	20.0 - 30.0	2,720	<0.15	638,000	59.8	0.685 J	1.98 J	<28.1	<0.849	264,000
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	2,610	<0.15	635,000	79.6	0.732 J	2.35 J	<28.1	<0.849	243,000
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	2,840	<0.15	633,000	93.1	0.749 J	<1.51	47.7 J	<0.849	229,000
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	2,890	<0.15	608,000	89.3	0.742 J	<1.51	<28.1	<0.849	223,000
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	2,590	<0.15	680,000	97.3	0.74 J	<1.51	<28.1	<0.849	242,000
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	2,660	<0.15	617,000	85.9	0.67 J	2.6 J	75.6 J	<0.849	219,000
ZTS-MW127R	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	18.5 - 23.0	2,680	<0.15	626,000	84.8	0.598 J	1.72 J	<28.1	<0.849	219,000
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	2,770	<0.15	644,000	81.6	0.631 J	<1.51	<28.1	<0.849	246,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	2,730	<0.15	620,000	95.9	0.691 J	<1.51	<28.1	<0.849	240,000
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	2,850	<0.15	601,000	94.5	1.19 J	<1.51	77.5 J	<0.849	229,000
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	2,620	<0.15	666,000	95.7	0.632 J	<1.51	36.1 J	<0.849	248,000
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	3,000	<0.15	633,000	104	0.653 J	2.4 J	<28.1	<0.849	230,000
ZTS-MW169	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	17.1 - 27.0	2,600	<0.15	613,000	91.7	0.515 J	<1.51	<28.1	<0.849	226,000
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	1,890	<0.15	408,000	25	0.493 J	<1.51	<28.1	<0.849	232,000
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	2,000	<0.15	475,000	44.5	0.591 J	<1.51	<28.1	<0.849	232,000
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	2,170	<0.15	453,000	51.3	0.466 J	1.52 J	<28.1	<0.849	233,000
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	2,040	<0.15	526,000	57.2	0.468 J	<1.51	45.9 J	<0.849	254,000
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	2,180	<0.15	430,000	48.6	0.423 J	1.68 J	<28.1	<0.849	242,000
ZTS-MW170	9/16/2024	N	PM06	1B	Upgradient	-8	UMCf	31.1 - 41.0	2,520	<0.15	583,000	85.3	0.542 J	<1.51	<28.1	<0.849	231,000
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,520	<0.15	567,000	<1.24	0.302 J	<1.51	309	<0.849	253,000
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,160	<0.15	515,000	<1.24	0.428 J	<1.51	1,380	<0.849	237,000
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,770	<0.15	624,000	<1.24	0.311 J	<1.51	155	<0.849	257,000
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	----	<0.15	541,000	<1.24	0.228 J	<1.51	93.3 J	<0.849	240,000
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,670	<0.15	553,000	<1.24	0.272 J	<1.51	103	<0.849	227,000
ZTS-MW166	9/6/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.8 - 29.5	2,500	<0.15	591,000	<1.24	0.184 J	9	<28.1	<0.849	241,000
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	2,300	<0.15	559,000	<1.24	0.675 J	<1.51	2,590	<0.849	233,000
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	2,360	<0.15	567,000	<1.24	0.454 J	<1.51	532	<0.849	241,000
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	2,560	<0.15	597,000	<1.24	0.449 J	<1.51	468	<0.849	242,000
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	3,080	<0.15	601,000	32.5	0.514 J	<1.51	176	<0.849	222,000
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	2,670	<0.15	583,000	<1.24	0.354 J	<1.51	59.2 J	<4.24	246,000
ZTS-MW171	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.3 - 29.0	2,580	<0.15	546,000	<1.24	0.246 J	<1.51	<28.1	<0.849	226,000
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	2,460	<0.15	573,000	<1.24	0.207 J	<1.51	215	<0.849	229,000
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	2,310	<0.15	563,000	<1.24	0.149 J	<1.51	59.7 J	<0.849	227,000
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	2,590	<0.15	564,000	<1.24	0.171 J	<1.51	168	<0.849	204,000
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	----	<0.15	553,000	<1.24	0.108 J	<1.51	85 J	<0.849	208,000
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	2,560	<0.15	550,000	<1.24	0.163 J	<1.51	147	<0.849	203,000
ZTS-MW178	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	17.8 - 27.5	2,390	<0.15	537,000	<1.24	0.108 J	<1.51	<28.1	<0.849	221,000
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	2,170 J+	<0.15	572,000	<1.24	2 J	<1.51	<28.1	<0.849	259,000
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	2,540	<0.15	525,000	<1.24	0.544 J	<1.51	<28.1	<0.849	240,000
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	2,590	<0.15	588,000	<1.24	0.552 J	<1.51	207	<0.849	250,000
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	----	<0.15	552,000	<1.24	0.462 J	<1.51	<28.1	<0.849	231,000
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	2,490	<0.15	605,000	<1.24	0.614 J	2.9 J	<28.1	<0.849	244,000
ZTS-MW167	9/6/2024	N	PM06	1B	Downgradient	5	Alluvium	23.3 - 33.0	2,540	<0.15	602,000	<1.24	0.536 J	9.33	<28.1	<0.849	242,000
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,680	<0.15	603,000	<1.24	0.617 J	<1.51	<28.1	<0.849	230,000
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,620	<0.15	599,000	<1.24	0.594 J	<1.51	<28.1	<0.849	227,000
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,530	<0.15	599,000	<1.24	0.853 J	<1.51	<28.1	<0.849	241,000
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,640	<0.15	599,000	<1.24	0.806 J	<1.51	<28.1	<0.849	242,000
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,580	<0.15	544,000	<1.24	0.456 J	<1.51	<28.1	<0.849	219,000
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,530	<0.15	529,000	<1.24	0.43 J	<1.51	<28.1	<0.849	211,000
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,380	<0.15	551,000	<1.24	0.389 J	<1.51	<28.1	<0.849	235,000
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,590	<0.15	538,000	<1.24	0.406 J	<1.51	<28.1	<0.849	229,000
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,500	<0.15	603,000	1.55 J	0.37 J	<1.51	<28.1	<4.24	241,000
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,770	<0.15	595,000	<1.24	0.368 J	<1.51	<28.1	<4.24	243,000
ZTS-MW172	9/11/2024	N	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,390	<0.15	553,000	<1.24	0.313 J	<1.51	<28.1	<0.849	212,000
ZTS-MW172	9/11/2024	FD	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	2,390	<0.15	547,000	<1.24	0.306 J	<1.51	<28.1	<0.849	211,000
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	1,480	<0.15	316,000	6.45	0.872 J	<1.51	39.2 J	<0.849	205,000
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	1,850	<0.15	278,000	3.36 J+	0.551 J	<1.51	40.8 J	<0.849	206,000
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	1,420	<0.15	246,000	3.03	0.358 J	<1.51	87 J	<0.849	196,000
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	1,500	<0.15	342,000	4.79	0.43 J	<1.51	81.6 J	<0.849	244,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	1,610	<0.15	339,000	6.2	0.236 J	<1.51	<28.1	<4.24	250,000
ZTS-MW173	9/12/2024	N	PM06	1B	Downgradient	5	UMCf	33.3 - 43.0	1,440	<0.15	288,000	3.26	0.169 J	8.3	<28.1	<0.849	253,000
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,360	<0.15	584,000	<1.24	1.17 J	<1.51	<28.1	<0.849	218,000
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,690	<0.15	625,000	<1.24	0.638 J	<1.51	<28.1	<0.849	231,000
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,720	<0.15	551,000	<1.24	0.519 J	<1.51	<28.1	<0.849	207,000
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,770	<0.15	578,000	<1.24	0.671 J	<1.51	<28.1	<0.849	233,000
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,750	<0.15	583,000	<1.24	0.494 J	2.29 J	<28.1	<0.849	209,000
ZTS-MW179	9/10/2024	N	PM06	1B	Downgradient	5	Alluvium	18.3 - 23.0	2,300 J+	<0.15	572,000	<1.24	0.366 J	<1.51	<28.1	<0.849	216,000
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,190 J+	<0.15	588,000	<1.24	0.738 J	<1.51	<28.1	<0.849	234,000
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,560	<0.15	575,000	<1.24	0.549 J	<1.51	<28.1	<0.849	243,000
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	2,540	<0.15	520,000	<1.24	0.473 J	<1.51	<28.1	<0.849	199,000
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,580	<0.15	573,000	<1.24	0.407 J	<1.51	<28.1	<0.849	237,000
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,260	<0.15	590,000	<1.24	0.421 J	2.49 J	33 J	<0.849	234,000
ZTS-MW168	9/6/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,530	<0.15	601,000	<1.24	0.327 J	9.09	<28.1	<0.849	233,000
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	2,270	<0.15	611,000	<1.24	0.601 J	<1.51	<28.1	<0.849	235,000
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	2,590	<0.15	536,000	<1.24	0.412 J	<1.51	<28.1	<0.849	227,000
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	2,330	<0.15	521,000	<1.24	0.435 J	<1.51	<28.1	<0.849	202,000
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	2,640	<0.15	546,000	<1.24	0.5 J	<1.51	<28.1	<0.849	222,000
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	2,420	<0.15	550,000	<1.24	0.422 J	<1.51	<28.1	<0.849	222,000
ZTS-MW174	9/11/2024	N	PM06	1B	Downgradient	15	Alluvium	19.8 - 29.5	2,540	<0.15	547,000	<1.24	0.32 J	<1.51	<28.1	<0.849	211,000
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,580	<0.15	571,000	<1.24	0.635 J	1.68 J	<28.1	<0.849	228,000
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,590	<0.15	604,000	1.5 J	0.528 J	<1.51	<28.1	<0.849	243,000
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,340	<0.15	524,000	<1.24	0.385 J	<1.51	<28.1	<0.849	196,000
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,520	<0.15	603,000	<1.24	0.434 J	<1.51	<28.1	<0.849	230,000
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,540	<0.15	563,000	<1.24	0.415 J	<1.51	<28.1	<0.849	204,000
ZTS-MW177	9/10/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	2,660 J+	<0.15	587,000	<1.24	0.382 J	<1.51	<28.1	<0.849	217,000
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,690	<0.15	656,000	86.4	0.769 J	<1.51	<28.1	<0.849	233,000
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,260	<0.15	599,000	81	0.753 J	<1.51	<28.1	<0.849	209,000
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,810	<0.15	660,000	102	0.831 J	<1.51	<28.1	<0.849	231,000
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,700	<0.15	676,000	102	0.832 J	<1.51	<28.1	<0.849	238,000
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,740	<0.15	619,000	78.7	0.669 J	<1.51	<28.1	<0.849	212,000
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,800	<0.15	622,000	77.5	0.679 J	<1.51	<28.1	<0.849	215,000
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,700	<0.15	656,000	79.2	0.853 J	<1.51	<28.1	<0.849	247,000
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,750	<0.15	663,000	81.1	0.766 J	<1.51	39.9 J	<0.849	244,000
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,690	<0.15	637,000	93.3	0.703 J	<1.51	<28.1	<0.849	214,000
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,790	<0.15	649,000	98.2	0.706 J	1.98 J	<28.1	<0.849	223,000
ZTS-MW180	9/10/2024	N	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,810 J+	<0.15	661,000	94.1	0.639 J	<1.51	<28.1	<0.849	217,000
ZTS-MW180	9/10/2024	FD	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	2,740 J+	<0.15	674,000	94.2	0.639 J	<1.51	<28.1	<0.849	216,000
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	2,510	<0.15	587,000	<1.24	0.418 J	<1.51	<28.1	<0.849	232,000
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	2,590	<0.15	590,000	2.04 J+	0.47 J	<1.51	<28.1	<0.849	248,000
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	2,650	<0.15	590,000	<1.24	0.376 J	<1.51	<28.1	<0.849	232,000
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	----	<0.15	539,000	<1.24	0.35 J	<1.51	<28.1	<0.849	223,000
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	2,650	<0.15	526,000	<1.24	0.36 J	<1.51	<28.1	<0.849	213,000
ZTS-MW148	9/12/2024	N	PM06	1B	Downgradient	35	Alluvium	22.0 - 32.0	2,450	<0.15	563,000	<1.24	0.315 J	9.57	<28.1	<0.849	232,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107A	5/23/2023	N	PM01	1B	Downgradient	50	Alluvium	24.8 - 34.5	2,560	<0.15	575,000	<1.24	0.44 J	<1.51	<28.1	<0.849	228,000
LVWPS-MW107A	8/24/2023	N	PM02	1B	Downgradient	50	Alluvium	24.8 - 34.5	2,460	<0.15	569,000	<1.24	0.432 J	<1.51	<28.1	<0.849	237,000
LVWPS-MW107A	11/30/2023	N	PM03	1B	Downgradient	50	Alluvium	24.8 - 34.5	2,560	<0.15	542,000	1.32 J	0.333 J	<1.51	<28.1	<0.849	206,000
LVWPS-MW107A	2/22/2024	N	PM04	1B	Downgradient	50	Alluvium	24.8 - 34.5	2,140	<0.15	519,000	2.09	0.346 J	<1.51	<28.1	<0.849	212,000
LVWPS-MW107A	5/28/2024	N	PM05	1B	Downgradient	50	Alluvium	24.8 - 34.5	2,560	<0.15	564,000	1.91 J	0.347 J	<1.51	<28.1	<0.849	225,000
LVWPS-MW107A	9/12/2024	N	PM06	1B	Downgradient	50	Alluvium	24.8 - 34.5	2,460	<0.15	562,000	4.04	0.351 J	9.61	<28.1	<0.849	226,000
LVWPS-MW107B	5/23/2023	N	PM01	1B	Downgradient	50	UMCf	46.0 - 65.8	1,820	<0.15	252,000	<1.24	<0.0596	<1.51	39.1 J	<0.849	369,000
LVWPS-MW107B	8/24/2023	N	PM02	1B	Downgradient	50	UMCf	46.0 - 65.8	919	<0.15	172,000	8.44	0.135 J	<1.51	68.5 J	<0.849	161,000
LVWPS-MW107B	12/1/2023	N	PM03	1B	Downgradient	50	UMCf	46.0 - 65.8	479	<0.15	163,000	<1.24	<0.0596	1.9 J	<28.1	<0.849	76,100
LVWPS-MW107B	2/23/2024	N	PM04	1B	Downgradient	50	UMCf	46.0 - 65.8	1,700	<0.15	286,000	<1.24	<0.0596	<1.51	72.6 J	<0.849	361,000
LVWPS-MW107B	5/24/2024	N	PM05	1B	Downgradient	50	UMCf	46.0 - 65.8	1,760	<0.15	254,000	<1.24	<0.0596	<1.51	52.5 J	<0.849	379,000
LVWPS-MW107B	9/12/2024	N	PM06	1B	Downgradient	50	UMCf	46.0 - 65.8	1,910	<0.15	260,000	1.24 J	<0.0596	11.2	53.5 J	<0.849	396,000
LVWPS-MW107C	5/23/2023	N	PM01	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	11,300	<0.15	544,000	<1.24	0.132 J	<1.51	50.8 J	<17	5,950,000
LVWPS-MW107C	8/24/2023	N	PM02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	10,200	<1.5	552,000	<12.4	<0.596	<15.1	<281	<8.49	6,020,000
LVWPS-MW107C	12/1/2023	N	PM03	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	10,200	<1.5	492,000	<12.4	<0.596	<15.1	<281	<8.49	5,590,000
LVWPS-MW107C	2/23/2024	N	PM04	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	10,000	<3	556,000	<24.8	<1.19	125	<562	<17	6,450,000
LVWPS-MW107C	5/28/2024	N	PM05	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	2,950	<0.15	632,000	93.7	0.569 J	2.81 J	<28.1	<0.849	228,000
LVWPS-MW107C	9/13/2024	N	PM06	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	9,400	<1.5	507,000	<12.4	<0.596	69	<281	<8.49	5,770,000
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	2,620	<0.15	579,000	1.44 J	0.43 J	<1.51	<28.1	<0.849	224,000
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	2,370	<0.15	577,000	<1.24	0.385 J	<1.51	<28.1	<0.849	216,000
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	2,500	<0.15	507,000	<1.24	0.323 J	<1.51	<28.1	<0.849	197,000
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	2,190	<0.15	602,000	<1.24	0.356 J	2.76 J	<28.1	<0.849	223,000
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	2,490	<0.15	560,000	<1.24	0.39 J	2.01 J	34.6 J	<0.849	227,000
ZTS-MW175	9/12/2024	N	PM06	1B	Downgradient	100	Alluvium	19.8 - 29.5	2,530	<0.15	568,000	<1.24	0.361 J	10.1	<28.1	<0.849	234,000
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	2,490	<0.15	582,000	4.97	0.379 J	<1.51	<28.1	<0.849	227,000
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	2,350	<0.15	611,000	4.34	0.404 J	<1.51	<28.1	<0.849	230,000
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	2,460	<0.15	602,000	3.82 J+	0.404 J	<1.51	<28.1	<0.849	249,000
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	2,480	<0.15	606,000	17.5	0.449 J	1.9 J	<28.1	<0.849	244,000
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	2,520	<0.15	589,000	6.64	0.448 J	1.86 J	<28.1	<0.849	233,000
ZTS-MW176	9/13/2024	N	PM06	1B	Downgradient	150	Alluvium	19.8 - 29.5	2,440	<0.15	591,000	11.8	0.406 J	11.3	64.3 J	3.06	247,000
Test Area 2A																	
Pre-Construction Baseline Results																	
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	2,710	<0.15	633,000	95.3	<0.0596	<1.51	<28.1	<0.849	234,000
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	687,000	48.7	----	----	<28.1	----	----
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	3,190	<0.15	702,000	61.7	<0.0596	<1.51	<28.1	<0.849	254,000
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	2,630	<0.15	662,000	97.6	<0.0596	<1.51	<28.1	<0.849	214,000
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	2,970	<0.15	732,000	56.3	<0.0596	<1.51	<28.1	<0.849	248,000
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	2,660	<0.15	628,000	102	<0.0596	<1.51	<28.1	<0.849	210,000
Post-Construction Performance Monitoring Results																	
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	2,790	<0.15	627,000	89.9	0.681 J	2.43 J	<28.1	<0.849	235,000
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	2,910	<0.15	635,000	103	0.705 J	<1.51	<28.1	<0.849	239,000
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	2,770	<0.15	632,000	92.1	0.628 J	<1.51	30.6 J	<0.849	224,000
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	2,700	<0.15	753,000	93	0.597 J	<1.51	<28.1	<0.849	228,000
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	2,970	<0.15	623,000	102	0.614 J	2.07 J	<28.1	<0.849	231,000
ZTS-MW137	9/16/2024	N	PM06	2A	Upgradient	-9	Alluvium	14.0 - 24.0	2,650	<0.15	615,000	91.9	0.644 J	<1.51	<28.1	<0.849	224,000
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,600	<0.15	607,000	65	0.713 J	2.26 J	<28.1	<0.849	223,000
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,870	<0.15	657,000	67	0.732 J	<1.51	<28.1	<0.849	247,000
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,860	<0.15	627,000	80.2	0.777 J	<1.51	<28.1	<0.849	246,000
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,940	0.643 J	633,000	79.2	1.41 J	<1.51	<28.1	<0.849	248,000
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,850	<0.15	671,000	73.6	0.683 J	<1.51	<28.1	<0.849	230,000
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,920	<0.15	677,000	74.3	0.714 J	<1.51	<28.1	<0.849	235,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,780	<0.15	739,000	89.1	0.688 J	<1.51	<28.1	<0.849	239,000
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,800	<0.15	753,000	86.2	0.678 J	<1.51	<28.1	<0.849	241,000
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	3,010	<0.15	651,000	81.1	0.721 J	<1.51	<28.1	<0.849	235,000
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,650	<0.15	666,000	77.9	0.685 J	2.57 J	<28.1	<0.849	239,000
ZTS-MW118	9/16/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,670	<0.15	626,000	78.1	0.69 J	<1.51	<28.1	<0.849	222,000
ZTS-MW118	9/16/2024	FD	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	2,710	<0.15	625,000	77.2	0.713 J	<1.51	<28.1	<0.849	221,000
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	2,920	<0.15	623,000	85.4	0.613 J	1.78 J	<28.1	<0.849	240,000
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	2,690	<0.15	616,000	90.6	0.664 J	<1.51	<28.1	<0.849	220,000
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	2,670	<0.15	657,000	86.9	0.631 J	<1.51	<28.1	<0.849	232,000
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	3,140	<0.15	605,000	87.3	0.61 J	2.4 J	<28.1	<0.849	230,000
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	3,200	<0.15	619,000	88.5	0.59 J	<1.51	<28.1	<0.849	223,000
ZTS-MW190	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	14.3 - 24.0	2,810 J+	<0.15	618,000	92.9	0.535 J	<1.51	<28.1	<0.849	236,000
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	2,770	<0.15	598,000	90.7	0.628 J	1.83 J	<28.1	<0.849	218,000
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	2,530	<0.15	640,000	94.5	0.678 J	1.52 J	<28.1	<0.849	218,000
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	2,790	<0.15	603,000	99.2	0.638 J	<1.51	<28.1	<0.849	212,000
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	----	<0.15	686,000	105	0.686 J	2.8 J	<28.1	<0.849	248,000
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	2,970	<0.15	583,000	80.4	0.635 J	<1.51	<28.1	<0.849	197,000
ZTS-MW196	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.8 - 23.5	2,840 J+	<0.15	621,000	94.3	0.55 J	<1.51	<28.1	<0.849	228,000
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	2,400	<0.15	558,000	87	0.635 J	1.89 J	<28.1	<0.849	219,000
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	2,470	<0.15	551,000	87.9	0.636 J	<1.51	60.8 J	<0.849	203,000
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	2,370	<0.15	522,000	73.8	0.493 J	1.72 J	<28.1	<0.849	219,000
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	1,980	<0.15	474,000	69.9	0.477 J	<1.51	<28.1	<0.849	226,000
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	2,730	<0.15	554,000	82	0.512 J	<1.51	<28.1	<0.849	206,000
ZTS-MW202	9/16/2024	N	PM06	2A	Upgradient	-3	UMCf	28.8 - 38.5	2,360	<0.15	543,000	79.5	0.526 J	<1.51	35 J	<0.849	214,000
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	2,350	<0.15	618,000	56.5	0.913 J	2.26 J	<28.1	<0.849	215,000
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	2,720	<0.15	607,000	85.7	0.662 J	<1.51	<28.1	<0.849	222,000
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	3,060	<0.15	643,000	96.6	0.665 J	<1.51	31.3 J	<0.849	227,000
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	----	<0.15	629,000	91.9	0.613 J	2 J	<28.1	<0.849	223,000
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	2,870	<0.15	656,000	95.7	0.571 J	1.54 J	<28.1	<4.24	242,000
ZTS-MW192	9/17/2024	N	PM06	2A	Center of Array	0	Alluvium	14.3 - 24.0	2,950 J+	<0.15	620,000	92.4	0.564 J	<1.51	<28.1	<0.849	230,000
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	2,320	<0.15	568,000	1.43 J	0.339 J	4.15 J	65.7 J	<0.849	212,000
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	2,130	<0.15	509,000	3.77	0.284 J	<1.51	54.9 J	<0.849	196,000
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	2,620	<0.15	592,000	8.43	0.428 J	<1.51	30.6 J	<0.849	206,000
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	2,640	<0.15	572,000	15.5	0.483 J	<1.51	89.2 J	<0.849	192,000
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	2,540	<0.15	572,000	13.9	0.43 J	<1.51	<28.1	<0.849	199,000
ZTS-MW191	9/18/2024	N	PM06	2A	Downgradient	1	Alluvium	14.8 - 24.5	2,790	<0.15	580,000	17.6	0.304 J	<1.51	<28.1	<0.849	209,000
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	2,830	<0.15	606,000	72.3	0.639 J	1.77 J	<28.1	<0.849	213,000
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	2,510	<0.15	617,000	76.6	0.708 J	<1.51	<28.1	<0.849	225,000
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	2,760	<0.15	633,000	86.6	0.61 J	<1.51	<28.1	<0.849	207,000
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	2,860	<0.15	624,000	89.8	0.655 J	<1.51	<28.1	<0.849	215,000
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	2,800	<0.15	618,000	86.6	0.6 J	<1.51	<28.1	<4.24	239,000
ZTS-MW195	9/19/2024	N	PM06	2A	Downgradient	1	Alluvium	14.3 - 24.0	2,970	<0.15	670,000	87	0.575 J	<1.51	<28.1	<0.849	226,000
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	2,730	<0.15	626,000	92.1	0.681 J	<1.51	<28.1	<0.849	217,000
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	2,590	<0.15	625,000	102	0.678 J	3.44 J	49.8 J	<0.849	222,000
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	3,210	<0.15	673,000	113	0.753 J	<1.51	37.1 J	<0.849	220,000
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	2,820	<0.15	612,000	95.7	0.661 J	1.74 J	<28.1	<0.849	215,000
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	2,760	<0.15	724,000	97.6	0.833 J	<1.51	<28.1	<4.24	226,000
ZTS-MW138	9/17/2024	N	PM06	2A	Downgradient	5	Alluvium	14.0 - 24.0	2,790 J+	<0.15	638,000	95.2	1.65 J	<1.51	<28.1	<0.849	219,000
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	2,730	<0.15	630,000	69.8	0.641 J	<1.51	<28.1	<0.849	220,000
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	2,670	<0.15	615,000	75.3	0.553 J	1.76 J	<28.1	<0.849	223,000
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	2,800	<0.15	576,000	72.4	0.599 J	<1.51	29.7 J	<0.849	194,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	2,870	<0.15	629,000	85	1.1 J	<1.51	<28.1	<0.849	228,000
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	2,850	<0.15	673,000	81.4	0.61 J	<1.51	<28.1	<4.24	247,000
ZTS-MW139	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.0 - 23.0	2,710	<0.15	689,000	84.3	0.561 J	1.6 J	<28.1	<0.849	234,000
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,780	<0.15	642,000	83.4	0.697 J	6.52	38.2 J	<0.849	215,000
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,700	<0.15	618,000	82.2	0.7 J	6.56	58.2 J	<0.849	222,000
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,700	<0.15	597,000	76.5	0.543 J	<1.51	<28.1	<0.849	224,000
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,760	<0.15	615,000	79	0.551 J	<1.51	<28.1	<0.849	225,000
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,990	<0.15	607,000	87.9	0.595 J	<1.51	29.3 J	<0.849	210,000
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,890	<0.15	565,000	82.9	0.572 J	<1.51	33.5 J	<0.849	198,000
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	3,000	<0.15	610,000	101	0.685 J	<1.51	36.3 J	<0.849	221,000
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,900	<0.15	608,000	103	0.691 J	<1.51	51.4 J	<0.849	220,000
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,990	<0.15	647,000	89.1	0.56 J	<1.51	<28.1	<0.849	231,000
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,850	<0.15	654,000	90.9	0.618 J	<1.51	<28.1	<0.849	231,000
ZTS-MW193	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,790	<0.15	679,000	93.6	0.569 J	<1.51	<28.1	<0.849	237,000
ZTS-MW193	9/18/2024	FD	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	2,990	<0.15	627,000	89	0.471 J	<1.51	<28.1	<0.849	231,000
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	2,120	<0.15	584,000	62.7	0.892 J	2.16 J	<28.1	<0.849	229,000
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	2,230	<0.15	581,000	75.3	0.92 J	<1.51	<28.1	<0.849	233,000
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	2,210	<0.15	487,000	48	0.586 J	<1.51	<28.1	<0.849	183,000
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	1,840	<0.15	399,000	41.2	0.509 J	<1.51	31.1 J	<0.849	183,000
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	2,080	<0.15	629,000	74.1	0.729 J	1.86 J	<28.1	<0.849	228,000
ZTS-MW203	9/17/2024	N	PM06	2A	Downgradient	5	UMCf	28.3 - 38.0	2,290 J+	<0.15	624,000	69.9	0.658 J	2.89 J	<28.1	<0.849	218,000
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	2,870	<0.15	615,000	99.1	0.714 J	6.45	<28.1	<0.849	211,000
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	2,790	<0.15	612,000	88.1	0.6 J	<1.51	<28.1	<0.849	229,000
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	2,900	<0.15	608,000	100	0.64 J	<1.51	<28.1	<0.849	202,000
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	2,980	<0.15	587,000	102	0.68 J	<1.51	48.4 J	<0.849	215,000
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	2,910	<0.15	634,000	99.2	0.6 J	<1.51	<28.1	<0.849	221,000
ZTS-MW194	9/18/2024	N	PM06	2A	Downgradient	15	Alluvium	17.8 - 22.5	2,730	<0.15	621,000	96.3	0.556 J	1.81 J	<28.1	<0.849	232,000
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	2,540	<0.15	604,000	85.9	0.74 J	1.62 J	<28.1	<0.849	208,000
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	2,740	<0.15	593,000	83.8	0.647 J	2.15 J	<28.1	<0.849	210,000
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	2,910	<0.15	585,000	89.3	0.614 J	1.65 J	<28.1	<0.849	202,000
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	2,870	<0.15	644,000	103	0.742 J	<1.51	<28.1	<0.849	212,000
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	2,970	<0.15	658,000	96.5	0.691 J	1.56 J	<28.1	<0.849	220,000
ZTS-MW197	9/17/2024	N	PM06	2A	Downgradient	55	Alluvium	12.8 - 22.5	2,720 J+	<0.15	652,000	94.4	0.578 J	1.79 J	<28.1	<0.849	226,000
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	2,810	<0.15	628,000	95.8	0.666 J	<1.51	<28.1	<0.849	209,000
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	2,570	<0.15	643,000	101	0.838 J	<1.51	<28.1	<0.849	240,000
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	2,660	<0.15	610,000	79.5	0.741 J	<1.51	<28.1	<0.849	219,000
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	2,130	<0.15	715,000	77.5	0.623 J	<1.51	<28.1	<0.849	268,000
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	2,630 J+	<0.15	648,000	101	0.615 J	2.44 J	<28.1	<0.849	230,000
ZTS-MW113	9/19/2024	N	PM06	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	2,480	<0.15	714,000	82.4	0.858 J	<1.51	<28.1	<0.849	260,000
Test Area 2B																	
Pre-Construction Baseline Results																	
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	1,250	<0.15	464,000	5.13	<0.0596	<1.51	<28.1	<0.849	397,000
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	----	----	229,000	10.8	----	----	<28.1	----	----
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	1,110	<0.15	182,000	<24.8	<0.0596	<1.51	<28.1	<0.849	137,000
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	1,110	<0.15	176,000	<12.4	<0.0596	<1.51	<28.1	<0.849	135,000
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	2,570	<0.15	785,000	<62	<0.0596	<1.51	<28.1	<0.849	238,000
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	1,490	<0.15	579,000	<24.8	<0.0596	<1.51	<28.1	<0.849	431,000
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,330	<0.15	258,000	10.2	<0.0596	<1.51	<28.1	<0.849	155,000
Post-Construction Performance Monitoring Results																	

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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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	1,650	<0.15	465,000	7.38	0.0868 J	2.03 J	41.1 J	<0.849	398,000
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	1,500 J+	<0.15	457,000	6.41	0.0864 J	<1.51	<28.1	<0.849	410,000
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	1,640	<0.15	462,000	8.01	0.0998 J	<1.51	<28.1	<0.849	407,000
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	1,490	<0.15	528,000	9.19	0.0827 J	<1.51	<28.1	<0.849	432,000
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	1,420	<0.15	451,000	8.23	0.0755 J	<1.51	<28.1	<0.849	387,000
ZTS-MW133	9/17/2024	N	PM06	2B	Upgradient	-9	UMCf	54.0 - 69.0	1,580 J+	<0.15	480,000	9.71	0.09 J	<1.51	<28.1	<0.849	408,000
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	870	<0.15	202,000	<1.24	<0.0596	<1.51	104	<0.849	151,000
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	1,150	<0.15	299,000	<1.24	<0.0596	<1.51	250	<0.849	237,000
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	1,250 J+	12.6	376,000	6.57	34.1	34.7	223	28.9	295,000
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	1,100	<0.15	416,000	<1.24	<0.0596	<1.51	190 J+	<0.849	322,000
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	1,250	<0.15	404,000	<1.24	<0.0596	<1.51	144	<0.849	320,000
ZTS-MW117	9/17/2024	N	PM06	2B	Upgradient	-2	UMCf	40.5 - 55.5	1,160 J+	<0.15	398,000	<1.24	<0.0596	<1.51	155	<0.849	312,000
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	2,400	<0.15	628,000	82.9	0.796 J	2.37 J	<28.1	<0.849	229,000
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	2,600	<0.15	644,000	92.7	0.81 J	<1.51	<28.1	<0.849	242,000
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	2,490	<0.15	610,000	74	0.715 J	<1.51	<28.1	<0.849	228,000
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	1,580	<0.15	606,000	30.6	0.507 J	<1.51	<28.1	<0.849	281,000
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	2,570	<0.15	664,000	78.5	0.657 J	2.11 J	<28.1	<0.849	243,000
ZTS-MW134	9/19/2024	N	PM06	2B	Upgradient	-2	UMCf	26.0 - 36.0	2,420	<0.15	643,000	65	0.58 J	<1.51	<28.1	<0.849	248,000
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	1,240	<0.15	390,000	2.49	0.704 J	<1.51	<28.1	<0.849	262,000
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	1,460	<0.15	475,000	15.5	0.323 J	<1.51	45.7 J	<0.849	272,000
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	1,180	<0.15	466,000	<1.24	0.344 J	<1.51	404	<0.849	329,000
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	----	<0.15	425,000	<1.24	0.122 J	<1.51	107 J+	<0.849	326,000
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	1,140	0.218 J	468,000	5.89	1.01 J	<1.51	164	<0.849	318,000
ZTS-MW198	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	26.1 - 46.0	1,370	<0.15	441,000	<1.24	0.103 J	1.92 J	<28.1	<0.849	353,000
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	1,070	<0.15	455,000	<1.24	0.0735 J	<1.51	72.2 J	<0.849	351,000
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	1,110	<0.15	456,000	<1.24	0.0701 J	<1.51	72.7 J	<0.849	346,000
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	1,190	<0.15	437,000	1.29 J	0.307 J	<1.51	200	<0.849	359,000
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	1,520	<0.15	480,000	<1.24	<0.0596	<1.51	316	<0.849	382,000
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	----	<0.15	458,000	<1.24	<0.0596	<1.51	75 J	<0.849	380,000
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	1,240	<1.5	493,000	<12.4	<0.596	<15.1	<281	<8.49	407,000
ZTS-MW200	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	1,400	<0.15	461,000	<1.24	<0.0596	<1.51	<28.1	<0.849	372,000
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	1,410	<0.15	367,000	<1.24	0.342 J	<1.51	<28.1	<0.849	284,000
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	1,300	<0.15	384,000	<1.24	0.83 J	<1.51	43.7 J	<0.849	311,000
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	1,390	<0.15	435,000	<1.24	0.594 J	<1.51	29.9 J	<0.849	340,000
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	1,430	<0.15	415,000	<1.24	0.495 J	<1.51	51.8 J	<0.849	341,000
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	1,480	<0.15	461,000	<1.24	0.603 J	<1.51	32.7 J	<4.24	391,000
ZTS-MW201	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	27.1 - 47.0	1,660	<0.15	487,000	<1.24	0.492 J	<1.51	<28.1	<0.849	419,000
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	1,490	<0.15	463,000	<1.24	1.15 J	<1.51	<28.1	<0.849	381,000
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	1,310	<0.15	433,000	<1.24	0.807 J	<1.51	<28.1	<0.849	381,000
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	1,720	<0.15	491,000	1.96 J	0.712 J	<1.51	<28.1	<0.849	407,000
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	1,630	<0.15	473,000	<1.24	0.563 J	<1.51	56.1 J	<0.849	397,000
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	1,520	<0.15	453,000	<1.24	0.615 J	<1.51	28.7 J	<4.24	436,000
ZTS-MW206	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	1,620	<0.15	477,000	1.31 J	0.519 J	<1.51	<28.1	<0.849	421,000
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	1,560	<0.15	492,000	2.34	1.05 J	<1.51	<28.1	<0.849	396,000
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	1,530	<0.15	450,000	2.74	0.532 J	<1.51	<28.1	<0.849	379,000
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	1,830	<0.15	514,000	2.83	0.425 J	<1.51	<28.1	<0.849	405,000
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	----	<0.15	494,000	2.72	0.318 J	<1.51	<28.1	<0.849	408,000
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	1,640	<1.5	549,000	<12.4	<0.596	<15.1	<281	<8.49	453,000
ZTS-MW199	9/19/2024	N	PM06	2B	Downgradient	5	UMCf	50.1 - 65.0	1,830	<0.15	513,000	7.08	0.227 J	<1.51	<28.1	<0.849	420,000
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	1,510	<0.15	292,000	1.49 J	0.696 J	<1.51	<28.1	<0.849	182,000
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	1,610	<0.15	337,000	2.4	0.784 J	<1.51	<28.1	<0.849	209,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	1,470	<0.15	274,000	<1.24	0.298 J	<1.51	171	<0.849	222,000
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	1,520	<0.15	268,000	<1.24	0.308 J	<1.51	181	1.23 J	210,000
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	1,320	<0.15	270,000	1.45 J	0.156 J	<1.51	50 J	<0.849	202,000
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	1,420 J+	<0.15	280,000	<1.24	0.234 J	<1.51	72.6 J	<0.849	222,000
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	1,420	<0.15	279,000	<1.24	0.123 J	<1.51	50.6 J	<0.849	236,000
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	1,380	<0.15	288,000	<1.24	0.136 J	<1.51	49.1 J	<0.849	234,000
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	1,490	<0.15	324,000	1.28 J	0.142 J	1.74 J	<28.1	<0.849	268,000
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	1,390	<0.15	324,000	1.3 J	0.184 J	<1.51	<28.1	<0.849	266,000
ZTS-MW207	9/17/2024	N	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	1,440 J+	<0.15	424,000	<1.24	0.243 J	<1.51	<28.1	<0.849	338,000
ZTS-MW207	9/17/2024	FD	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	1,440 J+	<0.15	422,000	<1.24	0.247 J	<1.51	<28.1	<0.849	341,000
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	1,670	<0.15	523,000	8.72	0.914 J	<1.51	<28.1	<0.849	435,000
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	1,790	<0.15	505,000	9.05	0.509 J	<1.51	<28.1	<0.849	434,000
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	1,710	<0.15	479,000	10.2	0.36 J	<1.51	<28.1	2.85	400,000
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	1,920	<0.15	494,000	9.99	0.307 J	<1.51	31.2 J	<0.849	427,000
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	1,790	<0.15	525,000	10.1	0.245 J	1.88 J	<28.1	<0.849	428,000
ZTS-MW135	9/17/2024	N	PM06	2B	Downgradient	7	UMCf	54.0 - 69.0	1,740 J+	<0.15	585,000	12.8	0.209 J	1.64 J	<28.1	<0.849	498,000
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,220	<0.15	179,000	<1.24	0.218 J	<1.51	147	<0.849	150,000
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,220	<0.15	182,000	<1.24	0.194 J	<1.51	141	<0.849	153,000
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,240	<0.15	188,000	<1.24 UJ	0.069 J	<1.51	161	<0.849	157,000
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,210	<0.15	190,000	4.38 J	0.098 J	<1.51	189	<0.849	156,000
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,290 J+	<0.15	206,000	<1.24	0.061 J	<1.51	129	<0.849	174,000
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,320 J+	<0.15	203,000	<1.24	0.0609 J	<1.51	137	<0.849	177,000
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,270	<0.15	214,000	<1.24	<0.0596	<1.51	130 J+	<0.849	186,000
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,300	<0.15	217,000	<1.24	<0.0596	<1.51	131 J+	<0.849	188,000
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,350	<0.15	231,000	<1.24	<0.0596	<1.51	74.8 J	<4.24	213,000
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,340	<0.15	245,000	<1.24	<0.0596	<1.51	80.4 J	<4.24	212,000
ZTS-MW136	9/12/2024	N	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,370	<0.15	247,000	<1.24	<0.0596	6.4	104	<0.849	222,000
ZTS-MW136	9/12/2024	FD	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	1,270	<0.15	247,000	<1.24	<0.0596	6.15	116	<0.849	221,000
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	2,220	<0.15	509,000	58.2	0.624 J	2.27 J	<28.1	<0.849	228,000
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	2,520	<0.15	590,000	78.2	0.672 J	1.81 J	44.5 J	<0.849	247,000
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	2,500	<0.15	563,000	57.7	0.425 J	<1.51	<28.1	<0.849	248,000
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	2,150	<0.15	508,000	56.4	0.484 J	<1.51	51.8 J	<0.849	256,000
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	2,360	<0.15	528,000	54.6	0.502 J	<1.51	38.2 J	<0.849	222,000
ZTS-MW208	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	26.1 - 46.0	1,920	<0.15	495,000	23.9	0.211 J	<1.51	<28.1	<0.849	308,000
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	1,580	<0.15	508,000	5.18	0.295 J	<1.51	<28.1	<0.849	431,000
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	1,850	<0.15	515,000	8.76 J+	0.255 J	<1.51	43.1 J	<0.849	436,000
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	1,830	<0.15	520,000	6.47	0.295 J	<1.51	29.5 J	<0.849	431,000
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	1,930	<0.15	520,000	4.92	0.239 J	<1.51	46.3 J	<0.849	418,000
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	1,770	<0.15	503,000	4.3	0.269 J	1.53 J	<28.1	<0.849	405,000
ZTS-MW209	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	50.6 - 65.5	1,890	<0.75	519,000	10.5	<0.298	<7.55	<140	<4.24	493,000
Test Area 2C																	
Pre-Construction Baseline Results																	
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,710	<0.15	668,000	94.9	<0.0596	<1.51	<28.1	<0.849	267,000
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	----	----	663,000	44.9	----	----	<28.1	----	----
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	2,440	<0.15	711,000	91.8	<0.0596	<1.51	<28.1	<0.849	243,000
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	3,000	<0.15	750,000	<62	<0.0596	9.21	<28.1	<0.849	263,000
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	2,660	<0.15	614,000	69.8	<0.0596	<1.51	<28.1	<0.849	241,000
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	2,520	<0.15	659,000	88.6	<0.0596	<1.51	<28.1	<0.849	268,000
LVWPS-MW102A	10/21/2022	N	BL02	2C	Downgradient	30	UMCf	47.0 - 66.6	2,360	<0.15	529,000	14.6	<0.0596	<1.51	<28.1	<0.849	910,000
LVWPS-MW102B	10/21/2022	N	BL02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	12,400	<0.15	552,000	<1.24	<0.0596	<1.51	<28.1	<84.9	5,840,000
Post-Construction Performance Monitoring Results																	

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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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,570	<0.15	625,000	105	0.712 J	6.51	<28.1	<0.849	245,000
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,760	<0.15	637,000	104	0.737 J	5.81	<28.1	<0.849	234,000
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,560	<0.15	621,000	102	0.671 J	<1.51	<28.1	<0.849	238,000
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,730	<0.15	636,000	99.1	0.659 J	<1.51	<28.1	<0.849	229,000
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	3,020	<0.15	612,000	99.7	0.759 J	<1.51	<28.1	<0.849	258,000
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	3,020	<0.15	613,000	99.5	0.686 J	<1.51	<28.1	<0.849	246,000
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	3,050	<0.15	619,000	97	0.557 J	<1.51	<28.1	<0.849	241,000
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	3,080	<0.15	610,000	98.2	0.598 J	<1.51	<28.1	<0.849	237,000
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,540	<0.15	680,000	101	0.636 J	<1.51	<28.1	<0.849	254,000
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,680	<0.15	677,000	101	0.628 J	<1.51	<28.1	<0.849	252,000
ZTS-MW140	9/11/2024	N	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,840	<0.15	632,000	99.2	0.622 J	3.03 J	<28.1	<0.849	234,000
ZTS-MW140	9/11/2024	FD	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2,910	<0.15	624,000	96.9	0.756 J	<1.51	35.1 J	<0.849	232,000
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	2,690	<0.15	603,000	99.1	0.637 J	1.94 J	<28.1	<0.849	232,000
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	2,810	<0.15	637,000	101	0.634 J	1.74 J	<28.1	<0.849	231,000
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	3,020	<0.15	628,000	101	0.663 J	<1.51	<28.1	<0.849	242,000
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	3,100	<0.15	603,000	97.4	0.572 J	<1.51	<28.1	<0.849	231,000
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	3,040	<0.15	630,000	101	0.629 J	<1.51	<28.1	<0.849	233,000
ZTS-MW119	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	15.0 - 25.0	2,710	<0.15	627,000	99.2	0.582 J	2.53 J	<28.1	<0.849	226,000
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,610	<0.15	630,000	85.2	0.815 J	5.96	<28.1	<0.849	244,000
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,590	<0.15	633,000	87.5	0.719 J	<1.51	<28.1	<0.849	237,000
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,930	<0.15	605,000	102	0.594 J	<1.51	<28.1	<0.849	236,000
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,620	<0.15	665,000	88.8	0.798 J	<1.51	34.4 J	<0.849	230,000
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,390	<0.15	714,000	94.4	0.693 J	<1.51	<28.1	<0.849	251,000
ZTS-MW181	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,810	<0.15	649,000	87.5	0.745 J	<1.51	<28.1	<0.849	234,000
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,630	<0.15	630,000	104	0.717 J	2.13 J	34.8 J	<0.849	238,000
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,640	<0.15	615,000	103	0.614 J	<1.51	<28.1	<0.849	228,000
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	3,140	<0.15	634,000	77	0.762 J	<1.51	43.9 J	<0.849	251,000
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,710	<0.15	692,000	106	0.579 J	<1.51	<28.1	<0.849	247,000
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,920	<0.15	646,000	106	0.535 J	<1.51	<28.1	<0.849	240,000
ZTS-MW188	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2,840	<0.15	622,000	101	0.534 J	2.28 J	<28.1	<0.849	229,000
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	1,710	<0.15	304,000	36.9	0.572 J	3.98 J	<28.1	<0.849	173,000
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	1,900	<0.15	346,000	45.5	0.447 J	<1.51	<28.1	<0.849	191,000
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	1,640	<0.15	320,000	38	0.335 J	<1.51	95.2 J	<0.849	179,000
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	1,800	<0.15	276,000	37.6	0.336 J	<1.51	<28.1	<0.849	182,000
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	1,540	<0.15	251,000	25.8	0.329 J	<1.51	<28.1	<0.849	158,000
ZTS-MW204	9/11/2024	N	PM06	2C	Upgradient	-3	UMCf	30.3 - 40.0	1,390 J+	<0.15	208,000	17.4	0.254 J	1.83 J	34.9 J	<0.849	138,000
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	2,780	<0.15	608,000	34.1	0.665 J	1.8 J	243 J+	<0.849	231,000
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	2,660	<0.15	603,000	38	0.618 J	4.26 J	29.8 J	<0.849	244,000
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	2,780	<0.15	635,000	49.4	0.643 J	<1.51	73.7 J	<0.849	243,000
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	2,970	<0.15	577,000	35.9	0.518 J	<1.51	178	<0.849	223,000
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	2,450	<0.15	634,000	60.9	0.555 J	<1.51	69.5 J	<0.849	261,000
ZTS-MW182	9/6/2024	N	PM06	2C	Center of Array	0	Alluvium	17.6 - 27.3	2,620	<0.15	612,000	53.8	0.5 J	<1.51	<28.1	<0.849	228,000
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	2,850	<0.15	617,000	52.1	0.727 J	2.43 J	<28.1	<0.849	231,000
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	2,650	<0.15	607,000	63.1	0.608 J	<1.51	<28.1	<0.849	233,000
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	3,070	<0.15	674,000	75	0.625 J	<1.51	<28.1	<0.849	255,000
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	----	<0.15	618,000	78.6	0.587 J	<1.51	58.3 J	<0.849	235,000
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	3,040 J+	<0.15	673,000	82	0.537 J	3.18 J	31.7 J	<0.849	238,000
ZTS-MW183	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	17.3 - 27.0	2,920	<0.15	625,000	81.8	0.56 J	<1.51	<28.1	<0.849	234,000
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	2,500	<0.15	623,000	69	0.599 J	<1.51	<28.1	<0.849	226,000
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	2,860	<0.15	648,000	95.6	0.72 J	<1.51	51 J	<0.849	252,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	2,840	<0.15	570,000	80.5	0.512 J	<1.51	<28.1	<0.849	197,000
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	----	<0.15	611,000	84.1	0.531 J	<1.51	<28.1	<0.849	234,000
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	2,790	<0.15	639,000	78.4	0.577 J	1.59 J	<28.1	<0.849	207,000
ZTS-MW187	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	15.3 - 25.0	2,770	<0.15	615,000	78.6	0.56 J	<1.51	<28.1	<0.849	230,000
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	2,800	<0.15	627,000	88.6	0.774 J	2.54 J	33.9 J	<0.849	242,000
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	2,870	<0.15	667,000	96.2	0.747 J	<1.51	<28.1	0.875 J	250,000
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	2,740	<0.15	617,000	93.2	0.593 J	<1.51	<28.1	<0.849	210,000
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	3,080	<0.15	606,000	91.8	0.623 J	1.73 J	33.2 J	<0.849	231,000
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	2,990	<0.15	664,000	80.9	0.75 J	2.04 J	<28.1	<0.849	232,000
ZTS-MW141	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	14.5 - 24.5	2,390	<0.15	636,000	80.3	0.596 J	<1.51	<28.1	<0.849	234,000
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	2,650	<0.15	587,000	69.2	0.764 J	2.37 J	30.8 J	<0.849	225,000
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	2,870	<0.15	636,000	84.9	0.696 J	<1.51	<28.1	<0.849	253,000
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	2,970	<0.15	610,000	73.5	0.577 J	<1.51	<28.1	<0.849	223,000
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	3,140	<0.15	591,000	88.4	0.572 J	<1.51	<28.1	<0.849	222,000
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	2,940	<0.15	624,000	89.2	0.655 J	<1.51	<28.1	<0.849	240,000
ZTS-MW142	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	16.0 - 26.0	2,350	<0.15	623,000	81.9	0.616 J	<1.51	<28.1	<0.849	237,000
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	2,710	<0.15	644,000	72.3	0.708 J	<1.51	<28.1	<0.849	227,000
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	2,540	<0.15	574,000	65.7	0.671 J	<1.51	<28.1	<0.849	216,000
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	3,080	<0.15	701,000	76.8	0.691 J	<1.51	<28.1	<0.849	250,000
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	----	<0.15	614,000	85	0.58 J	<1.51	<28.1	<0.849	235,000
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	2,730 J+	<0.15	700,000	86.5	0.598 J	4.57 J	<28.1	<0.849	241,000
ZTS-MW184	9/6/2024	N	PM06	2C	Downgradient	5	Alluvium	16.3 - 26.0	2,760	<0.15	682,000	83.4	0.599 J	9.35	<28.1	<0.849	236,000
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	1,020	<0.15	121,000	<1.24	0.316 J	<1.51	<28.1	<0.849	87,100
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	1,170	<0.15	126,000	2.12 J+	0.323 J	<1.51	52.2 J	<0.849	99,600
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	1,120	<0.15	105,000	<1.24	0.17 J	<1.51	97.4 J	<0.849	76,200
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	1,200	<0.15	161,000	8.12	0.206 J	<1.51	<28.1	<0.849	123,000
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	1,100 J+	<0.15	122,000	<1.24	<0.0596	3.25 J	<28.1	<0.849	88,000
ZTS-MW205	9/9/2024	N	PM06	2C	Downgradient	5	UMCf	30.3 - 40.0	965	<0.15	125,000	<1.24	0.0709 J	<1.51	<28.1	<0.849	95,300
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	2,720	<0.15	639,000	83.5	0.848 J	1.77 J	35.5 J	<0.849	240,000
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	2,880	<0.15	644,000	96.7	0.719 J	<1.51	<28.1	<0.849	254,000
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	2,990	<0.15	577,000	88.3	0.536 J	<1.51	<28.1	<0.849	210,000
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	2,920	<0.15	604,000	98.8	0.553 J	<1.51	<28.1	<0.849	234,000
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	2,860	<0.15	644,000	90.4	0.688 J	<1.51	<28.1	<0.849	232,000
ZTS-MW185	9/10/2024	N	PM06	2C	Downgradient	15	Alluvium	15.3 - 25.0	2,780 J+	<0.15	697,000	68.9	0.673 J	<1.51	<28.1	<0.849	226,000
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	2,800	<0.15	629,000	82.2	0.794 J	<1.51	<28.1	<0.849	235,000
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	2,970	<0.15	645,000	92.7	0.716 J	<1.51	<28.1	<0.849	245,000
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	2,890	<0.15	580,000	80.7	0.586 J	<1.51	<28.1	<0.849	208,000
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	2,680	<0.15	665,000	98.1	0.648 J	<1.51	30.8 J	<0.849	250,000
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	2,950	<0.15	642,000	87.8	0.649 J	<1.51	<28.1	<0.849	236,000
ZTS-MW186	9/10/2024	N	PM06	2C	Downgradient	25	Alluvium	15.3 - 25.0	2,620 J+	<0.15	677,000	82.3	0.584 J	<1.51	<28.1	<0.849	230,000
LVWPS-MW102A	5/30/2023	N	PM01	2C	Downgradient	30	UMCf	47.0 - 66.6	2,320	<0.15	499,000	13.8	0.138 J	<1.51	<28.1	<0.849	874,000
LVWPS-MW102A	8/23/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	2,380	<0.15	511,000	18	0.126 J	<1.51	<28.1	<0.849	876,000
LVWPS-MW102A	10/11/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	2C	Downgradient	30	UMCf	47.0 - 66.6	2,100	<0.15	516,000	17.2	0.142 J	2.84 J	28.8 J	<0.849	699,000
LVWPS-MW102A	2/27/2024	N	PM04	2C	Downgradient	30	UMCf	47.0 - 66.6	2,290	<0.15	539,000	16.6	0.136 J	1.82 J	<28.1	1.42 J	850,000
LVWPS-MW102A	5/23/2024	N	PM05	2C	Downgradient	30	UMCf	47.0 - 66.6	2,070	<0.15	554,000	16.5	0.133 J	2.25 J	<28.1	<0.849	798,000
LVWPS-MW102A	9/17/2024	N	PM06	2C	Downgradient	30	UMCf	47.0 - 66.6	2,240 J+	<0.15	520,000	16.2	0.123 J	<1.51	<28.1	<8.49	791,000
LVWPS-MW102B	5/26/2023	N	PM01	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	11,800	<0.15	513,000	1.37 J	0.0623 J	<1.51	89.9 J	<42.4	5,920,000
LVWPS-MW102B	8/23/2023	N	PM02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	11,400	<1.5	504,000	<12.4	<0.596	<15.1	<281	<8.49	5,840,000
LVWPS-MW102B	12/1/2023	N	PM03	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	10,900	<1.5	503,000	<12.4	<0.596	<15.1	<281	<8.49	5,330,000

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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	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	Dissolved Metals by SW6020
									Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW102B	2/27/2024	N	PM04	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	11,700	<0.15	563,000	<1.24	0.157 J	<1.51	61.8 J	<8.49	5,790,000
LVWPS-MW102B	5/23/2024	N	PM05	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	11,400 J+	<1.5	574,000	<1.24	0.112 J	<1.51	<28.1	<8.49	6,090,000
LVWPS-MW102B	9/17/2024	N	PM06	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	10,400 J+	<1.5	547,000	<12.4	<0.596	<15.1	<281	<8.49	5,830,000
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	2,600	<0.15	609,000	93.1	0.698 J	1.7 J	<28.1	<0.849	227,000
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	2,590	<0.15	630,000	101	0.599 J	<1.51	<28.1	<0.849	220,000
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	2,810	<0.15	620,000	90.5	0.584 J	<1.51	<28.1	<0.849	220,000
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	2,490	<0.15	688,000	93.6	0.631 J	<1.51	<28.1	<0.849	247,000
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	2,990	<0.15	616,000	93.5	0.566 J	<1.51	<28.1	<0.849	222,000
ZTS-MW189	9/10/2024	N	PM06	2C	Downgradient	55	Alluvium	12.8 - 23.0	2,690 J+	<0.15	637,000	91.6	0.543 J	<1.51	<28.1	<0.849	230,000
General Vicinity																	
Pre-Construction Baseline Results																	
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	----	----	436,000	21.6	----	----	<28.1	----	----
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	2,440	<0.15	424,000	33	<0.0596	<1.51	<28.1	<0.849	241,000
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	----	----	344,000	4.76	----	----	<28.1	----	----
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	2,190	<0.15	498,000	22.9	<0.0596	<1.51	<28.1	<0.849	269,000
Post-Construction Performance Monitoring Results																	
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	2,500	<0.15	439,000	35.8	0.171 J	<1.51	<28.1	<0.849	255,000
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	2,280	<0.15	443,000	35.2	0.183 J	<1.51	<28.1	<0.849	258,000
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	2,500	<0.15	469,000	136	0.651 J	<1.51	424	<0.849	272,000
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	2,450	<0.15	500,000	45.7	0.192 J	2.02 J	<28.1	<0.849	285,000
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	2,430	<0.15	454,000	40.9	0.223 J	<7.55	<28.1	<0.849	258,000
ZTS-MW116	9/12/2024	N	PM06	NA	NA	NA	UMCf	33.0 - 48.0	2,550	<0.15	486,000	43	0.193 J	9.87	<28.1	<0.849	288,000
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	2,000	<0.15	496,000	31.1	0.606 J	<1.51	<28.1	<0.849	271,000
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	2,110 J+	<0.15	531,000	45.4	0.616 J	<1.51	<28.1	<0.849	262,000
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	2,040	<0.15	584,000	57.6	0.734 J	<1.51	<28.1	<0.849	284,000
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	1,600	<0.15	427,000	21.9	0.295 J	2.16 J	<28.1	<0.849	245,000
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	2,290	<0.15	536,000	55.1	0.769 J	2.39 J	98.6 J	<0.849	264,000
ZTS-MW128	9/12/2024	N	PM06	NA	NA	NA	UMCf	42.0 - 52.0	2,190	<0.15	531,000	55.9	0.583 J	8.85	<28.1	<0.849	281,000

Notes:
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 the sample.
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 may or may not be present in the sample.
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
< The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
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
PM05 Hydrogen samples cancelled with lab due to instrument failure.

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	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	6.85	391	2.03	66,100	51.2	<0.07	695,000	12,100	<0.121
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	21.1	----	----	----	----	----	----	----	----
ZTS-MW124	8/31/2022	FD	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	20	----	----	----	----	----	----	----	----
ZTS-MW124	10/18/2022	N	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<0.704	376 J	2.19 J+	61,800 J	47.6 J	<0.07	591,000 J	12,400 J	<0.121
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<0.704	<0.348 UJ	<0.816	<108 UJ	<0.3 UJ	<0.07	4,440 J	91.5 J	<0.121
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	105	----	----	----	----	----	----	----	----
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	322	83.7	<0.816	145,000	4.28	<0.07	501,000	11,800	<0.121
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	27.9	329	2.85	69,000	51.3	<0.07	768,000	13,900	<0.121
Post-Construction Performance Monitoring Results																	
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.704	410	1.7 J	63,300	60.4	<0.07	671,000	12,200	<0.121
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.704	401	1.87 J	64,700	61.2	<0.07	619,000	12,400	<0.121
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.704	289	3.12	66,700	40.4	<0.07	675,000	13,500	<0.121
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	0.718 J	227	2.84 J+	68,800	35.5	<0.07	726,000	13,900	<0.121
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	1.71 J	339	1.99 J	64,000	57.8	<0.07	625,000	11,100	<0.121
ZTS-MW143	9/13/2024	N	PM06	1A	Upgradient	-50	Alluvium	23.0 - 33.0	3.7 J	327	1.86 J	65,300	56.2	<0.07	648,000	12,600	<0.121
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	2.29 J	332	4.2	65,200	49.6	<0.07	598,000	10,400	<0.121
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.704	334	1.64 J	64,700	48.7	<0.07	548,000	10,300	<0.121
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	20.6 J-	304	142 J-	67,000	52.4	<0.07	605,000	11,700	<0.121
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	0.707 J	302	2.39	71,100	49.8	<0.07	642,000	13,100	<0.121
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	0.964 J	299	1.52 J	63,600	45.7	<0.07	540,000	11,000	<0.121
ZTS-MW124R	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.704	293	1.45 J	64,000	46.5	<0.07	581,000	11,700	<0.121
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	149	34.7	1.65 J	162,000	2.07	<0.07	473,000	12,100	<0.121
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	150	102	0.942 J	143,000	14.1	<0.07	488,000	12,400	<0.121
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	130	98.8	1.77 J	154,000	15.8	<0.07	494,000	14,000	<0.121
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	117	30.4	<0.816	182,000	3.98	<0.07	500,000	12,500	<0.121
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	102	92.1	<0.816	165,000	14.7	<0.07	515,000	13,400	<0.121
ZTS-MW125	9/16/2024	N	PM06	1A	Upgradient	-8	UMCf	40.0 - 50.0	9.12 J+	5.38	<0.816	20,400	<0.3	<0.07	120,000	1,830	<0.121
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	2.37 J	351	3.79	64,600	51.3	<0.07	641,000	11,400	<0.121
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.704	346	1.59 J	61,600	52.9	<0.07	574,000	12,300	<0.121
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0.845 J	321	2.4	70,700	50.9	<0.07	637,000	12,900	<0.605
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.704	259	2.55	70,900	42.2	<0.07	651,000	13,500	<0.121
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1.58 J	309	1.95 J	67,000	51.9	<0.07	645,000	12,000	<0.121
ZTS-MW153	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1.02 J	268	1.97 J	70,600	45.5	<0.07	619,000	12,600	0.187 J
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.704	367	1.77 J	70,000	50	<0.07	643,000	12,000	0.124 J
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.704	342	1.6 J	63,800	52.7	0.0734 J	578,000	12,100	0.248 J
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.704	338	1.82 J	69,600	53.9	<0.07	627,000	13,000	0.152 J
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.704	331	1.77 J	71,000	54.7	<0.07	648,000	12,700	0.13 J
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.704	345	1.81 J	69,500	51.2	<0.07	670,000	12,000	0.128 J
ZTS-MW163	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.704	314	1.6 J	68,500	48.5	<0.07	607,000	12,500	0.124 J
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	246	69.6	1.94 J	65,400	1.85 J	<0.07	575,000	9,940	<0.121
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	151	144	1.55 J	64,400	6.42	<0.07	558,000	10,500	<0.121
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	136	182	1.76 J	69,700	11	<0.07	634,000	11,500	<0.121
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	133	166	2.57	70,100	6.02	<0.07	639,000	13,700	<0.121
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	111	201	1.94 J	64,100	16.6	<0.07	535,000	10,500	<0.121
ZTS-MW150	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	24.3 - 34.0	120	196	2.04	64,400	15.7	<0.07	598,000	11,500	<0.121
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	187	88.7	2.28	66,900	1.61	<0.07	628,000	10,400	<0.121
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	166	177	1.93 J	65,300	2.46	<0.07	590,000	10,800	<0.121
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	165	191	1.86 J	75,200	5.02	<0.07	651,000	12,900	<0.121

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	145	149	1.99 J	75,700	1.3 J	<0.07	686,000	11,700	<0.121
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	129	220	1.93 J	72,000	10.2	<0.07	619,000	10,600	<1.21
ZTS-MW154	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	127	135	1.53 J	71,900	2.31	0.0713 J	632,000	11,500	<0.121
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	322	121	3.12	65,500	10.5	<0.07	646,000	11,500	<0.121
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	322	117	3.06	64,800	9.63	<0.07	638,000	11,400	<0.121
ZTS-MW164	8/18/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	220	112	2.59	67,100	6.82	<0.07	633,000	12,400	<0.121
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	221	116	2.73	65,700	7.53	<0.07	635,000	11,200	<0.121
ZTS-MW164	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	197	142	2.56	79,800	14.5	<0.07	680,000	12,100	<0.121
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	195	136	2.57	78,100	13.6	<0.07	689,000	11,700	<0.121
ZTS-MW164	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	189	121	2.12 J	71,000	8.46	<0.07	680,000	12,500	<0.121
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	170	118	4.46 J	71,700	7.21	<0.07	662,000	12,000	<0.121
ZTS-MW164	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	163	134	1.68 J	71,400	6.83	<0.07	572,000	10,900	<0.121
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	168	141	1.97 J	72,400	7.51	<0.07	583,000	10,400	<0.121
ZTS-MW164	9/6/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	129	101	1.92 J	85,900	3.99	<0.07	700,000	11,400	<0.121
ZTS-MW164	9/6/2024	FD	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	130	102	2.09	85,000	4.45	<0.07	668,000	12,000	<0.121
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	510	254	4.76	62,500	29.6	<0.07	641,000	11,400	0.124 J
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	256	316	5.09	61,300	44.6	<0.07	598,000	11,400	<0.121
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	178	350	7.27	71,100	50.4	<0.07	649,000	13,300	<0.121
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	161	273	8.11	66,800	35.3	<0.07	649,000	13,300	<0.121
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	155	316	7.39	62,600	48.8	<0.07	623,000	12,100	<0.121
ZTS-MW151	9/11/2024	N	PM06	1A	Downgradient	5	Alluvium	24.3 - 34.0	242	305	7.75	67,100	49.3	<0.07	619,000	12,500	<0.121
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	985	164	6.04	65,000	13.2	<0.07	651,000	11,200	0.147
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	892	166	5.89	65,000	13.4	<0.07	650,000	11,700	<0.121
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	175	282	4.74	58,600	44.6	<0.07	613,000	11,900	<0.121
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	178	305	4.77	62,300	47	<0.07	664,000	12,500	<0.121
ZTS-MW155	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	169	269	7.58	69,600	30	<0.07	671,000	13,600	<0.121
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	188	280	8.15	72,000	32.4	<0.07	715,000	14,000	<0.121
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	153	190	7.57 J+	68,200	29.4	<0.07	720,000	13,900	<0.121
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	150	191	9.3 J+	68,800	29.2	<0.07	723,000	14,000	<0.121
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	137	262	6.27	69,500	42.7	<0.07	637,000	11,900	<0.605
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	137	260	6.35	69,200	43.8	<0.07	651,000	12,100	<0.605
ZTS-MW155	9/10/2024	N	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	174	226	6.76	72,100	35.5	<0.07	689,000	12,700	<0.121
ZTS-MW155	9/10/2024	FD	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	176	226	6.41	73,700	35.1	<0.07	683,000	12,800	<0.121
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	52.9	3.17	<0.816	185,000	<0.3	<0.07	476,000	6,190	<0.121
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	26.8	46.7	<0.816	171,000	7.34	<0.07	464,000	6,540	<0.121
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	17.3	16.2	<0.816	178,000	2.65	<0.07	452,000	6,270	<0.121
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	20.8	30.7	<0.816	192,000	4.77	<0.07	525,000	7,290	<0.121
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	17.2	99.9	<0.816	194,000	16.4	<0.07	537,000	8,250	<0.121
ZTS-MW156	9/9/2024	N	PM06	1A	Downgradient	5	UMCf	43.8 - 53.5	1.36 J	1.65 J	8.84	188,000	<0.3	<0.07	500,000	5,980	<0.121
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	326	226	4.46	73,100	25.6	<0.07	671,000	10,900	<0.121
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	157	285	7.01	72,600	39.1	<0.07	640,000	12,100	<0.121
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	101	227	6.7	80,900	42.9	<0.07	622,000	12,600	<0.121
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	111	298	6.74	79,300	48.9	<0.07	715,000	13,200	<0.121
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	82.1	246	4.23	77,900	38.4	<0.07	630,000	11,100	<0.121
ZTS-MW165	9/6/2024	N	PM06	1A	Downgradient	5	Alluvium	22.3 - 32.0	91	230	4.17	85,000	42.3	<0.07	662,000	11,800	<0.121
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	899	271	6.44	66,600	31	<0.07	654,000	11,700	<0.121
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	316	280	4.21	59,000	43.1	<0.07	603,000	11,700	<0.121
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	334	275	6.45	69,700	33.6	<0.07	653,000	13,500	<0.121
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	425	205	7.11	66,800	26.4	<0.07	679,000	13,300	<0.121
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	316	268	7.04	64,500	49	<0.07	647,000	13,300	<0.121
ZTS-MW152	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	232	264	7.18	71,100	48.4	<0.07	702,000	13,000	<0.121

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	679	160	5.38	62,400	16.1	<0.07	692,000	11,700	0.145 J
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	243	251	4.34	68,200	32.5	<0.07	738,000	12,600	<0.121
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	180	198	4.89	68,900	22.9	<0.07	617,000	12,100	<0.121
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	156	185	6.1 J+	68,000	31.3	<0.07	729,000	14,000	<0.121
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	210	242	6.12	70,900	40.1	<0.07	635,000	12,800	<0.121
ZTS-MW157	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	288	218	7.32	73,800	38.3	<0.07	696,000	13,100	<0.121
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	245	153	5.14	68,600	20.8	<0.07	668,000	12,500	<0.121
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	251	207	5.92	68,200	28.2	<0.07	626,000	10,900	<0.121
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	109	212	5.98	75,700	36.2	<0.07	624,000	13,500	<0.121
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	97.2	144	6.24 J+	91,400	34.2	<0.07	737,000	14,400	<0.121
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	127	192	5.77	86,900	36.5	<0.07	676,000	13,300	<0.121
ZTS-MW162	9/9/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	137	153	5.89	94,600	33.3	<0.07	697,000	13,600	<0.121
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	138	334	3.21	56,900	45.5	<0.07	591,000	10,600	<0.121
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	1.22 J	356	2.03	62,700	53.6	<0.07	629,000	11,800	<0.121
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.704	321	1.7 J	63,900	52.8	<0.07	586,000	12,700	<0.121
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.704	300	2.85	69,900	41.2	<0.07	680,000	13,500	<0.121
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.704	326	1.77 J	63,600	51.7	<0.07	629,000	12,000	<0.121
ZTS-MW149	9/11/2024	N	PM06	1A	Downgradient	25	Alluvium	23.3 - 33.0	0.879 J	335	1.62 J	67,200	53.5	<0.07	624,000	12,300	<0.121
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	406	192	6.03	63,400	21.4	<0.07	679,000	11,000	0.121 J
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	206	209	4.06	63,100	22.4	<0.07	678,000	12,200	0.192 J
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	147	193	4.16	68,100	26	<0.07	654,000	12,800	0.149 J
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	129	180	4.28	76,100	25.6	<0.07	726,000	13,400	0.156 J
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	118	179	4.87	78,200	29.3	<0.07	648,000	12,600	0.254 J
ZTS-MW144	9/11/2024	N	PM06	1A	Downgradient	35	Alluvium	24.0 - 34.0	124	167	4.53	83,200	25.7	<0.07	628,000	13,000	0.135 J
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	1.7 J	112	2.9	65,600	14.5	<0.07	681,000	12,800	<0.121
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	1.12 J	151	2.75	63,300	11.9	<0.07	653,000	12,100	<0.121
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	18.5	185	3.36	65,900	21.5	<0.07	649,000	13,500	<0.121
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	31.5	180	2.89	70,800	24.7	<0.07	702,000	13,900	0.121 J
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	111	241	4.03	70,100	38.8	<0.07	654,000	12,300	<0.605
ZTS-MW158	9/12/2024	N	PM06	1A	Downgradient	50	Alluvium	23.3 - 33.0	98.6	167	4.4	87,600	25.1	<0.07	697,000	13,800	0.135 J
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	885	62.4	2.85	107,000	6.64	<0.07	451,000	10,300	<0.121
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	220	272	2.6	77,000	37.6	<0.07	620,000	11,300	<0.121
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	102	271	2.78	75,300	38.7	<0.07	678,000	12,700	<0.121
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	73.8	222	2.63	82,600	35.5	<0.07	627,000	13,000	<0.121
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	69.8	223	2.06	87,300	36.1	<0.07	591,000	11,800	<0.605
ZTS-MW159	9/12/2024	N	PM06	1A	Downgradient	50	UMCf	38.8 - 48.5	84.5	198	1.9 J	101,000	32.5	<0.07	609,000	12,600	<0.121
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	3.15 J	237	2.39	64,900	31.9	<0.07	613,000	12,400	0.161 J
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	26.2	261	2.62	62,700	36.1	<0.07	614,000	12,100	0.259 J
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	14.4	272	2.1	72,600	41.5	<0.07	681,000	13,100	0.204 J
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	6.26	236	2.18	75,200	38.9	<0.07	672,000	12,900	0.251 J
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	1.84 J	261	2.3	74,600	42.3	<0.07	657,000	11,900	0.216 J
ZTS-MW160	9/13/2024	N	PM06	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.704	249	2.89	76,100	41.2	<0.07	631,000	11,700	0.131 J
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	5.86	252	1.89 J	66,400	22.8	<0.07	634,000	11,100	<0.121
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	2.16 J	292	2.57	66,200	40.9	<0.07	616,000	11,600	<0.121
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	2.01 J	286	1.96 J	66,100	39.9	<0.07	614,000	11,100	<0.121
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	26.2	307	2.4	68,500	43.7	<0.07	646,000	12,700	<0.121
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	26	305	2.52	67,000	41.9	<0.07	643,000	13,000	<0.121
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	49.4	284	3.29	70,200	33.8	0.0793 J	671,000	13,500	0.137 J
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	49.9	288	3.42	72,800	34.5	<0.07	682,000	13,700	0.123 J
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	40.1	307	2.8	65,400	48.3	<0.07	693,000	11,600	0.147 J
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	38.3	305	2.46	63,400	47.8	<0.07	675,000	11,900	0.129 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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW161	9/13/2024	N	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	42.6	293	2.95	66,000	47.5	<0.07	629,000	12,200	<0.121
ZTS-MW161	9/13/2024	FD	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	44.4	295	2.52	67,000	47.9	<0.07	642,000	12,400	0.125 J
Between Test Area 1A and Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	374	168	2.07	121,000	12.5	<0.07	549,000	6,830	<0.121
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	1,160	156	5.01	170,000	16	<0.07	669,000	11,600	<0.121
Post-Construction Performance Monitoring Results																	
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	12.1	9.92	3.34	41,600	1.45 J	<0.07	192,000	1,880	<0.121
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	179	10.2	<0.816	156,000	0.81 J	<0.07	491,000	4,320	<0.121
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	142	4.34 J	<0.816	161,000	<0.3	<0.07	535,000	4,730	<0.121
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	122	11.2	1.08 J	131,000	1.72 J	<0.07	438,000	4,100	<0.121
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	58.8	8.96	<0.816	141,000	1.31 J	<0.07	467,000	4,240	<0.121
ZTS-MW145	9/16/2024	N	PM06	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	128 J-	2.34 J	1.5 J	160,000	<0.3	<0.07	492,000	4,630	<0.121
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	426	46.8	1.11 J	238,000	8.37	<0.07	634,000	7,920	<0.121
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	435	2.2 J	<0.816	328,000	<0.3	<0.07	707,000	9,820	<0.121
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	338	1.79 J	<0.816	329,000	<0.3	<0.07	654,000	10,000	<0.121
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	331	1.49 J	<0.816	358,000	<0.3	<0.07	754,000	10,200	<0.121
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	289	1.23 J	<0.816	325,000	<0.3	<0.07	680,000	9,020	<0.121
ZTS-MW146	9/12/2024	N	PM06	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	263	1.24 J	<0.816	352,000	<0.3	<0.07	740,000	10,300	<0.121
Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	10.6	99.7	4.72	139,000	40.2	<0.07	770,000	14,100	<0.121
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	388	----	----	----	----	----	----	----	----
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	33.6	122	4.31 J+	108,000	36.7	<0.07	680,000	13,100	<0.121
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	37.6	119	3.19	112,000	39.2	<0.07	770,000	15,600	<0.121
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	245	----	----	----	----	----	----	----	----
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	45.6	91.8	9.01	90,500	42.9	<0.07	685,000	14,500	<0.121
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	20.9	95.9	2.38	125,000	39.3	<0.07	672,000	14,000	<0.121
LVWPS-MW107A	10/24/2022	N	BL02	1B	Downgradient	50	Alluvium	24.8 - 34.5	<0.704	92.1	2.01	123,000	38.8	<0.07	670,000	13,800	<0.121
LVWPS-MW107B	10/21/2022	N	BL02	1B	Downgradient	50	UMCf	46.0 - 65.8	14.5	<0.348	<0.816	546,000	<0.3	<0.07	736,000	7,290	<0.121
LVWPS-MW107C	10/24/2022	N	BL02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	314	<34.8	<0.816	5,770,000	<0.3	<7	9,210,000	7,650	<12.1
Post-Construction Performance Monitoring Results																	
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.704	93.4	3.36	127,000	38	<0.07	726,000	12,600	0.137 J
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.704	96.1	1.97 J	128,000	36.5	<0.07	686,000	11,800	0.131 J
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.704	95.4	2.35	130,000	36.7	<0.07	712,000	12,000	0.138 J
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.704	96.2	2.12	127,000	37.8	0.16 J	714,000	12,300	<0.121
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	210	<3.48	<8.16	5,540,000	<3	<0.7	8,790,000	8,610	<1.21
ZTS-MW147	9/16/2024	N	PM06	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.704	90.9	1.85 J	112,000	34.2	<0.07	672,000	11,100	<0.121
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.704	151	3.44	99,900	30.7	<0.07	652,000	13,900	0.212 J
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.704	148	3.02	103,000	32	<0.07	665,000	12,200	0.141 J
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.704	136	2.46	102,000	31.7	<0.07	699,000	13,500	0.146 J
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.704	121	2.18	120,000	36	<0.07	757,000	13,400	0.145 J
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.704	131	2.94	115,000	30.2	<0.07	673,000	12,100	0.133 J
ZTS-MW126	9/13/2024	N	PM06	1B	Upgradient	-8	Alluvium	20.0 - 30.0	3.54 J	125	2.79	117,000	31.8	<0.07	695,000	12,800	0.163 J
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	2.04 J	93.3	5.76	106,000	37.4	<0.07	711,000	15,300	<0.121
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	1.95 J	88.6	2.22	110,000	37.7	<0.07	712,000	15,300	<0.121
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	1.25 J	85.9	5.97	109,000	35.8	<0.07	717,000	14,700	<0.121
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	0.864 J	87.6	2.5	131,000	37.8	<0.07	763,000	14,500	<0.121
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	4.05 J	83.9	2.14	113,000	35.5	<0.07	662,000	12,500	<0.121
ZTS-MW127R	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.704	82.7	1.96 J	106,000	35.6	<0.07	690,000	13,900	<0.121
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	1.36 J	95.9	6.95	132,000	40.9	<0.07	745,000	15,000	<0.121

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.704	94.1	2.07	134,000	38.7	<0.07	736,000	13,000	<0.121
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	6.88 J+	93.5	30.9	125,000	35.6	<0.07	711,000	12,800	<0.121
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.704	92.2	1.98 J	135,000	37.8	<0.07	761,000	12,300	<0.121
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.704	93.9	2.25	129,000	36.8	<0.07	732,000	11,600	<0.121
ZTS-MW169	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.704	88.2	1.61 J	117,000	34.2	<0.07	696,000	12,000	<0.121
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	44.6	56.4	18.3	108,000	20.7	<0.07	587,000	11,000	0.134 J
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	9.37	74.3	2.19	102,000	25.4	0.0773 J	593,000	11,200	0.246 J
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	2.28 J	68.4	2.16	99,700	24.9	<0.07	632,000	12,100	0.137 J
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	2.1 J	70.5	1.94 J	111,000	27.2	<0.07	671,000	12,000	0.148 J
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	1.47 J	54	1.89 J	122,000	23.7	<0.07	631,000	11,100	0.183 J
ZTS-MW170	9/16/2024	N	PM06	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.704	87.4	1.59 J	111,000	33.5	<0.07	675,000	12,500	0.135 J
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	554	35.3	2.2	91,500	<0.3	<0.07	711,000	13,500	<0.121
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	202	145	2.7	65,800	13.3	<0.07	617,000	10,900	<0.121
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	280	39	2.19	121,000	1.46 J	<0.07	752,000	13,800	<0.121
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	234	27.3	10.4	114,000	1.77 J	<0.07	718,000	12,300	<0.121
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	158	37.5	2.24	109,000	2.09	<0.07	650,000	11,400	<0.121
ZTS-MW166	9/6/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.8 - 29.5	101	40.9	1.91 J	115,000	3.32	<0.07	763,000	11,400	<0.121
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	297	56.9	2.62	131,000	8.47	<0.07	713,000	13,300	<0.121
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	183	55.4	2.18	130,000	13.5	<0.07	678,000	11,600	<0.121
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	172	56.9	2.42	140,000	11.9	<0.07	749,000	11,600	<0.121
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	109	78.3	2.25	105,000	27.7	<0.07	713,000	13,500	<0.121
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	134	49.9	2.09	125,000	10.8	<0.07	708,000	11,200	<0.605
ZTS-MW171	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.3 - 29.0	120	43.4	1.63 J	119,000	10.2	<0.07	704,000	11,300	<0.121
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	442	16.4	1.96 J	122,000	<0.3	<0.07	702,000	14,300	<0.121
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	316	15.3	1.86 J	128,000	<0.3	<0.07	677,000	12,200	<0.121
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	382	11.9	1.87 J	139,000	<0.3	<0.07	660,000	13,200	<0.121
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	332	7.01	2.08	144,000	<0.3	<0.07	679,000	12,000	<0.121
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	263	12.3	2.05	138,000	<0.3	<0.07	640,000	12,100	<0.121
ZTS-MW178	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.704	16.1	1.67 J	115,000	0.364 J	<0.07	690,000	11,700	<0.121
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	931	40	3.38	116,000	0.468 J	<0.07	711,000	13,600	0.175 J
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	192	50.2	2.05	108,000	1.51 J	<0.07	646,000	11,900	<0.121
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	156	47.1	2.26	127,000	1.68 J	<0.07	759,000	12,900	<0.121
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	116	38.9	3.59	119,000	2.82	<0.07	706,000	12,600	<0.121
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	279	50.5	2.34	119,000	7.46	<0.07	750,000	14,000	<0.121
ZTS-MW167	9/6/2024	N	PM06	1B	Downgradient	5	Alluvium	23.3 - 33.0	149	48.7	2.49	118,000	6.73	<0.07	764,000	11,200	<0.121
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	340	40	2.46	115,000	1.51 J	<0.07	717,000	13,800	0.149 J
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	354	38.9	2.35	113,000	1.5 J	<0.07	707,000	13,400	0.134 J
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	605	29.2	3.44	126,000	6.81	<0.07	754,000	13,200	0.13 J
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	607	29.8	3.48	130,000	6.56	<0.07	774,000	13,300	0.159 J
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	121	40.5	2.26	123,000	1.31 J	<0.07	698,000	12,500	0.136 J
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	118	38.9	2.16	118,000	1.28 J	<0.07	670,000	11,900	0.125 J
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	99.7	37.1	3.26	126,000	1.04 J	<0.07	716,000	11,700	<0.121
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	98.3	37.9	3.24	125,000	0.793 J	<0.07	711,000	12,600	<0.121
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	14.5	38.2	2.09	119,000	2.02	<0.07	709,000	11,500	<0.605
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	16.7	38.1	2.35	119,000	2.25	<0.07	793,000	13,100	<0.605
ZTS-MW172	9/11/2024	N	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	8.59	36.7	1.95 J	121,000	3.5	<0.07	699,000	11,700	<0.121
ZTS-MW172	9/11/2024	FD	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	8.21	36.7	2.07	117,000	3.19	<0.07	700,000	11,700	<0.121
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	307	50.8	2.18	122,000	6.02	<0.07	532,000	9,080	<0.121
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	248	31	3	139,000	5.27	<0.07	526,000	9,020	<0.121
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	250	9.39	5.24	158,000	2.64	<0.07	500,000	9,820	<0.121
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	171	26.4	1.49 J	169,000	9.78	<0.07	617,000	11,300	<0.121

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	52.8	26.9	1.17 J	166,000	11.4	<0.07	594,000	10,500	<0.605
ZTS-MW173	9/12/2024	N	PM06	1B	Downgradient	5	UMCf	33.3 - 43.0	84.3	12.3	1.32 J	187,000	10.3	<0.07	625,000	10,300	<0.121
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	614	24.7	2.62	123,000	0.483 J	<0.07	680,000	14,600	0.306 J
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	201	29.5	2.38	133,000	0.844 J	<0.07	770,000	14,500	0.235 J
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	193	26.8	2.17	130,000	0.581 J	<0.07	689,000	14,100	0.169 J
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	290	25.9	1.89 J	130,000	0.76 J	<0.07	717,000	13,800	0.233 J
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	137	30.1	3.47	145,000	0.43 J	<0.07	658,000	13,600	<0.121
ZTS-MW179	9/10/2024	N	PM06	1B	Downgradient	5	Alluvium	18.3 - 23.0	74.7	29.4	1.97 J	134,000	0.333 J	<0.07	714,000	12,100	<0.121
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	284	55.8	2.33	125,000	2.21 J	<0.07	728,000	13,300	0.233 J
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	185	49.8	2.32	119,000	5.19	<0.07	695,000	11,900	0.134 J
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	214	34.3	2.93	111,000	1.03 J	<0.07	648,000	12,300	0.142 J
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	139	30	2.42 J+	123,000	0.365 J	<0.07	728,000	12,600	0.139 J
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	109	39	2.22	118,000	0.447 J	<0.07	728,000	14,100	0.283 J
ZTS-MW168	9/6/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	55.5	39.4	2.2	121,000	0.843 J	<0.07	750,000	11,800	0.135 J
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	262	65.8	2.99	137,000	8.8	<0.07	732,000	13,700	0.196 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	197	40.6	2.27	120,000	1.46 J	<0.07	648,000	12,000	0.15 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	113	36.5	3.34	123,000	<0.3	<0.07	653,000	11,300	0.188 J
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	136	31.2	2.85 J+	129,000	<0.3	<0.07	717,000	12,400	0.193 J
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	59.4	40.6	2.03	129,000	2.23	<0.07	729,000	11,200	0.164 J
ZTS-MW174	9/11/2024	N	PM06	1B	Downgradient	15	Alluvium	19.8 - 29.5	42.5	41.4	2.21	124,000	3.05	<0.07	694,000	11,500	0.184 J
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	258	59.3	3.02	118,000	4.65	<0.07	708,000	14,200	0.184 J
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	141	44.8	2.92	124,000	2.44 J+	<0.07	784,000	13,900	0.174 J
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	101	29.1	1.45 J	115,000	2	<0.07	631,000	13,100	<0.121
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	116	30.4	2.44 J+	140,000	1.46 J	<0.07	734,000	13,500	<0.121
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	106	36.7	2	124,000	4.33	<0.07	666,000	12,800	<0.121
ZTS-MW177	9/10/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	68.9	35.6	2.12	124,000	3.38	<0.07	737,000	12,100	<0.121
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	1.43 J	85.2	2.44	136,000	41.1	<0.07	674,000	13,700	<0.121
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	1.39 J	78.8	1.88 J	125,000	39.9	<0.07	646,000	14,100	0.138 J
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	1.09 J	84.5	3.36	133,000	41.9	<0.07	661,000	14,600	<0.121
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	0.744 J	83.4	2.37	134,000	42	<0.07	671,000	14,000	<0.121
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.704	78.7	1.82 J	143,000	35	<0.07	657,000	14,000	<0.121
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.704	79.5	1.87 J	146,000	36.6	<0.07	677,000	14,400	<0.121
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.704	87	1.82 J	159,000	39	<0.07	711,000	14,000	<0.121
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.704	87.3	1.41 J	159,000	37.9	<0.07	698,000	14,500	<0.121
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	1.31 J	83.7	1.92 J	138,000	37.2	<0.07	681,000	12,300	<0.121
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	0.771 J	83.5	2.83	144,000	36.4	<0.07	701,000	12,200	<0.121
ZTS-MW180	9/10/2024	N	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	0.783 J	78.6	2.08	138,000	36.6	<0.07	697,000	12,200	<0.121
ZTS-MW180	9/10/2024	FD	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	0.881 J	79.3	2.07	137,000	36.8	<0.07	709,000	12,400	<0.121
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	14.5	71.3	2.49	130,000	10	<0.07	708,000	13,400	0.189 J
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	90.6	53.2	3.23	137,000	2.41 J+	<0.07	779,000	13,400	0.25 J
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	43.2	47	2.4	138,000	<0.3	<0.07	733,000	12,800	0.231 J
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	38.1	32.3	2.44	130,000	<0.3	<0.07	703,000	11,400	0.248 J
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	24.9	44.4	1.87 J	117,000	2.58	<0.07	662,000	9,370	0.214 J
ZTS-MW148	9/12/2024	N	PM06	1B	Downgradient	35	Alluvium	22.0 - 32.0	13.5	44.5	1.98 J	127,000	3.85	<0.07	741,000	11,900	0.219 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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW107A	5/23/2023	N	PM01	1B	Downgradient	50	Alluvium	24.8 - 34.5	174	58.7	2.65	122,000	6.31	<0.07	689,000	13,200	0.258 J
LVWPS-MW107A	8/24/2023	N	PM02	1B	Downgradient	50	Alluvium	24.8 - 34.5	84.8	45.5	2.36	126,000	2.03	<0.07	683,000	13,100	0.251 J
LVWPS-MW107A	11/30/2023	N	PM03	1B	Downgradient	50	Alluvium	24.8 - 34.5	86.6	31.7	2.1	131,000	1.64 J	<0.07	662,000	13,100	0.221 J
LVWPS-MW107A	2/22/2024	N	PM04	1B	Downgradient	50	Alluvium	24.8 - 34.5	69.1	29.8	1.44 J	124,000	1.58 J	<0.07	671,000	12,300	0.204 J
LVWPS-MW107A	5/28/2024	N	PM05	1B	Downgradient	50	Alluvium	24.8 - 34.5	81.4	41.4	2.12	129,000	5.99	<0.07	710,000	13,000	0.169 J
LVWPS-MW107A	9/12/2024	N	PM06	1B	Downgradient	50	Alluvium	24.8 - 34.5	59.8	38	2.05	134,000	5.22	<0.07	735,000	12,400	0.158 J
LVWPS-MW107B	5/23/2023	N	PM01	1B	Downgradient	50	UMCf	46.0 - 65.8	12.8	0.62 J	<0.816	492,000	<0.3	<0.07	746,000	7,710	<0.121
LVWPS-MW107B	8/24/2023	N	PM02	1B	Downgradient	50	UMCf	46.0 - 65.8	14.7	3.03 J	3.97	211,000	1.31 J	<0.07	308,000	4,310	<0.121
LVWPS-MW107B	12/1/2023	N	PM03	1B	Downgradient	50	UMCf	46.0 - 65.8	1.71 J	4.55 J	<0.816	113,000	2.17	<0.07	171,000	3,130	<0.121
LVWPS-MW107B	2/23/2024	N	PM04	1B	Downgradient	50	UMCf	46.0 - 65.8	14.3	0.476 J	<0.816	497,000	<0.3	<0.07	752,000	8,190	<0.121
LVWPS-MW107B	5/24/2024	N	PM05	1B	Downgradient	50	UMCf	46.0 - 65.8	12.9	0.384 J	<0.816	522,000	<0.3	<0.07	795,000	8,150	<0.121
LVWPS-MW107B	9/12/2024	N	PM06	1B	Downgradient	50	UMCf	46.0 - 65.8	14.7	0.357 J	<0.816	534,000	<0.3	<0.07	806,000	9,060	<0.121
LVWPS-MW107C	5/23/2023	N	PM01	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	206	<0.348	<0.816	5,590,000	<0.3	<0.07	8,170,000	8,290	<2.42
LVWPS-MW107C	8/24/2023	N	PM02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	263 J+	19.2 J	<8.16	5,510,000	<3	<0.7	8,350,000	9,480	<1.21
LVWPS-MW107C	12/1/2023	N	PM03	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	187	<3.48	<8.16	5,340,000	<3	<0.7	8,100,000	8,280	<1.21
LVWPS-MW107C	2/23/2024	N	PM04	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	232	<6.96	<16.3	6,000,000	<6	<1.4	7,830,000	8,540	<2.42
LVWPS-MW107C	5/28/2024	N	PM05	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.704	95.2	1.91 J	120,000	37	0.144 J	779,000	11,700	<0.121
LVWPS-MW107C	9/13/2024	N	PM06	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	194	<3.48	<8.16	5,240,000	<3	<0.7	8,100,000	8,060	<1.21
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	6.99	99.9	1.99 J	120,000	12.7	<0.07	733,000	13,500	0.137 J
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	1.06 J	84.2	2.13	121,000	1.06 J	<0.07	685,000	13,400	0.132 J
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	0.802 J	57	1.72 J	115,000	0.604 J	<0.07	629,000	12,700	0.131 J
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	0.712 J	61.3	2.15	132,000	0.415 J	<0.07	664,000	12,300	0.149 J
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.704	55.9	3.29	124,000	3.48	<0.07	759,000	12,400	0.144 J
ZTS-MW175	9/12/2024	N	PM06	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.704	55.1	2.13	131,000	3.98	<0.07	739,000	12,900	0.159 J
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.704	133	2.46	104,000	10.2	<0.07	724,000	14,200	0.212 J
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.704	111	2.26	109,000	5.13	<0.07	698,000	13,400	0.153 J
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	1.55 J	92.7	2.02	119,000	9.43	<0.07	745,000	13,700	0.16 J
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.704	93.1	2.08	122,000	7.2	<0.07	740,000	13,300	0.263 J
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	2.43 J	80.4	2.09	119,000	8.36	<0.07	712,000	12,600	0.169 J
ZTS-MW176	9/13/2024	N	PM06	1B	Downgradient	150	Alluvium	19.8 - 29.5	1.73 J	74.8	3.04	121,000	8.6	<0.07	728,000	13,100	0.159 J
Test Area 2A																	
Pre-Construction Baseline Results																	
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	33.9	85.8	4.69	157,000	42.8	<0.07	718,000	12,400	<0.121
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	71.2	----	----	----	----	----	----	----	----
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	82.4	3.14	117,000	42.3	<0.07	780,000	16,700	<0.121
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	73.3	76.9	3.16	162,000	42.3	<0.07	717,000	11,600	<0.121
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	317	80.5	6.12	129,000	41.1	<0.07	762,000	14,900	<0.121
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.704	73.7	2.85	155,000	46.2	<0.07	635,000	13,200	<0.121
Post-Construction Performance Monitoring Results																	
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	1.35 J	83.2	2.22	131,000	38.2	<0.07	726,000	11,400	<0.121
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.704	86.6	2.17	126,000	40	<0.07	677,000	11,500	<0.121
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	0.974 J	85.1	2.51	122,000	39.8	<0.07	713,000	11,000	<0.121
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.704	85.7	2.12	116,000	37.1	<0.07	695,000	11,700	<0.121
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.704	85.8	2.31	113,000	38	<0.07	724,000	10,800	<0.121
ZTS-MW137	9/16/2024	N	PM06	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.704	80.4	1.74 J	98,600	34.4	<0.07	688,000	11,500	<0.121
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	0.901 J	73.3	2.21	105,000	38.7	<0.07	688,000	14,300 J	2.09
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	80	2.16	114,000	40.6	<0.07	752,000	14,100	1.85 J
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	82.6	2.21	112,000	43	<0.07	788,000	13,900	<0.121
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	0.955 J	83.6	2.76	115,000	44	0.137 J	699,000	14,000	0.703 J
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	80.9	2.57	123,000	42.7	<0.07	717,000	13,200	<0.121
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	81.9	2.64	122,000	43.2	<0.07	723,000	13,100	<0.121

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	81.8	2.16	119,000	40.4	<0.07	735,000	13,100	<0.121
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	81.3	2.08	123,000	40.5	<0.07	731,000	12,900	<0.121
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	82.7	2.22	107,000	40.5	<0.07	764,000	13,100	<0.121
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	80.5	2.16	105,000	35.7	0.111 J	737,000	12,400	<0.121
ZTS-MW118	9/16/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	76.9	1.79 J	102,000	38.1	<0.07	698,000	12,600	<0.121
ZTS-MW118	9/16/2024	FD	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.704	78	2.11 J+	103,000	39.8	<0.07	690,000	12,700	<0.121
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	2.94 J	85.7	2.17	128,000	36.9	<0.07	727,000	12,400	<0.121
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	1.35 J	88.6	2.07	123,000	38.8	<0.07	711,000	12,400	<0.121
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.704	88.4	2.06	128,000	41	<0.07	724,000	11,300	<0.121
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	0.862 J	81	1.64 J	123,000	37.9	<0.07	713,000	11,300	<0.121
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	4.4 J	85.9	1.87 J	109,000	32.5	<0.07	672,000	11,100	<0.121
ZTS-MW190	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.704	85.3	1.94 J	115,000	36.5	0.0728 J	718,000	11,600	<0.121
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	0.707 J	78.7	1.97 J	134,000	35.8	<0.07	686,000	11,500	<0.121
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	0.831 J	82	2.27	134,000	38.5	<0.07	706,000	10,500	<0.121
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.704	81	2.11	122,000	37.3	<0.07	709,000	11,500	<0.121
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	1.01 J	86.4	2.6	138,000	38.6	<0.07	711,000	11,100	<0.121
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	1.88 J	71	2.31	101,000	34.6	<0.07	642,000	10,700	<0.121
ZTS-MW196	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.704	78.9	1.92 J	114,000	35.9	<0.07	719,000	11,200	<0.121
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	20.2	71.6	2.16	136,000	34.8	<0.07	662,000	9,400	0.152 J
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	7.82	72.7	2.1	122,000	33.2	<0.07	637,000	9,750	0.194 J
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	11.2 J+	56	2.26	115,000	29.6	<0.07	623,000	10,500	<0.121
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	6.2	54.4	1.93 J	116,000	25.6	<0.07	616,000	9,670	<0.121
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	10.8	72.6	2.08	112,000	27.5	<0.07	633,000	8,950	<0.121
ZTS-MW202	9/16/2024	N	PM06	2A	Upgradient	-3	UMCf	28.8 - 38.5	2.02 J	68	1.89 J	110,000	31	<0.07	642,000	10,400	<0.121
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	168	77.6	3.29	133,000	36.4	<0.07	706,000	11,500	<0.121
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	12	80.9	2.14	129,000	42.1	<0.07	665,000	11,400	<0.121
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	4.72 J	86	3.71	137,000	40	<0.07	710,000	12,100	<0.121
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	4.02 J	78.3	2.78	125,000	36.2	<0.07	718,000	10,800	<0.121
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	4.3 J	84.6	2.05	118,000	35.6	<0.07	709,000	10,400	<0.605
ZTS-MW192	9/17/2024	N	PM06	2A	Center of Array	0	Alluvium	14.3 - 24.0	3.15 J	80.8	1.98 J	114,000	36.1	<0.07	762,000	11,000	<0.121
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	392	37.6	2.7	122,000	8.63	<0.07	741,000	12,300	<0.121
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	269	29.1	1.96 J	103,000	10.5	<0.07	642,000	11,100	<0.121
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	273	45	3.23	117,000	14.4	<0.07	713,000	12,200	<0.121
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	139	53.2	2.88 J+	120,000	16.4	<0.07	683,000	11,800	<0.121
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	169	48.2	2.36	112,000	13.9	<0.07	708,000	11,700	<0.121
ZTS-MW191	9/18/2024	N	PM06	2A	Downgradient	1	Alluvium	14.8 - 24.5	139	48.2	2.13	108,000	14.8	<0.07	724,000	11,800	<0.121
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	70.3	74.3	2.7	127,000	34.5	<0.07	714,000	12,400	<0.121
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	108	73.8	2.24	124,000	37.8	<0.07	674,000	11,800	0.193 J
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	54.9	78.4	3.41	130,000	39.6	<0.07	678,000	11,400	<0.121
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	14	76.7	2.05 J+	122,000	35.4	<0.07	718,000	11,800	<0.121
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	40.5	78.1	2.05	114,000	34.2	<0.07	712,000	11,700	<0.605
ZTS-MW195	9/19/2024	N	PM06	2A	Downgradient	1	Alluvium	14.3 - 24.0	29	78.5	1.99 J	115,000	34.9	<0.07	753,000	11,600	<0.121
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	9.67	80	3.84	147,000	39.5	<0.07	684,000	10,900	0.13 J
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	1.45 J	78.3	2.72	134,000	40.1	<0.07	676,000	9,660	<0.121
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	1.34 J	82.1	2.9	134,000	40.6	<0.07	726,000	11,800	<0.121
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.704	76.1	2.08 J+	109,000	35.8	<0.07	669,000	11,000	<0.121
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.704	73.4	2.17	98,100	38.3	<0.07	693,000	11,500	<0.605
ZTS-MW138	9/17/2024	N	PM06	2A	Downgradient	5	Alluvium	14.0 - 24.0	2.28 J	71	1.96 J	97,000	35.8	<0.07	735,000	11,800	<0.121
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	96.1	85.5	2.98	136,000	32.7	<0.07	693,000	11,300	<0.121
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	20.1	81	2.28	123,000	36.1	<0.07	684,000	11,600	<0.121
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	26.8	68.9	4	113,000	36.8	<0.07	635,000	11,900	<0.121

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	6.77	72.3	2.37 J+	116,000	35.9	<0.07	724,000	12,400	<0.121
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	22.7	78.4	2.21	115,000	32.2	<0.07	706,000	11,600	<0.605
ZTS-MW139	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.0 - 23.0	9.67	78.8	2.26	113,000	34.5	<0.07	754,000	11,900	<0.121
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	8.14	79.3	3	129,000	38.5	<0.07	709,000	12,500	0.124 J
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	9.8	79.6	2.71	124,000	39.1	<0.07	690,000	12,200	<0.121
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	2.25 J	75.5	1.87 J	126,000	38.5	<0.07	664,000	11,400	<0.121
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	2.42 J	76.6	1.73 J	130,000	38.4	<0.07	694,000	11,700	<0.121
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	2.5 J	76.7	2.75	127,000	36.2	<0.07	679,000	11,700	<0.121
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	2 J	73.4	2.75	120,000	36	<0.07	646,000	11,500	<0.121
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	1.07 J	76.3	2.49	127,000	36.3	<0.07	718,000	11,100	<0.121
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	1.11 J	76.8	2.65	123,000	36.5	<0.07	699,000	11,000	<0.121
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.704	79.8	1.83 J	116,000	34.2	<0.07	716,000	12,100	<0.121
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.704	78.4	1.86 J	118,000	34.5	<0.07	726,000	11,300	<0.121
ZTS-MW193	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	0.852 J	80.5	2.09	117,000	35.2	0.214 J	770,000	11,800	<0.121
ZTS-MW193	9/18/2024	FD	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	0.944 J	79.1	1.8 J	111,000	34.7	<0.07	715,000	11,500	<0.121
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	27.3	67.8	2.97	124,000	30.3	<0.07	652,000	10,400	0.153 J
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	9.99	72.3	3.04	122,000	32.4	<0.07	713,000	10,900	0.21 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	30.2 J+	54	2.17	103,000	22.9	<0.07	554,000	9,660	<0.121
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	45.7	40.2	1.94 J	96,700	17.1	<0.07	551,000	8,660	<0.121
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	7.43	69.1	2.43	111,000	28.3	<0.07	658,000	11,400	0.153 J
ZTS-MW203	9/17/2024	N	PM06	2A	Downgradient	5	UMCf	28.3 - 38.0	16.3	67.7	2.37	112,000	27.6	<0.07	667,000	11,200	0.13 J
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	13	79.5	2.64	145,000	39.9	<0.07	683,000	11,000	0.152 J
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	0.915 J	77.4	1.74 J	139,000	41.6	<0.07	681,000	10,400	0.136 J
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	0.791 J	80	2.9	133,000	41.3	<0.07	651,000	10,900	0.137 J
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	0.705 J	79.2	2.7	127,000	36.2	<0.07	681,000	10,600	<0.121
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.704	80.7	1.93 J	114,000	34.7	<0.07	684,000	10,800	<0.121
ZTS-MW194	9/18/2024	N	PM06	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.704	78.1	2.01	109,000	37.3	<0.07	709,000	10,500	<0.121
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	6.28	75.9	2.01	127,000	36.6	<0.07	680,000	12,100	0.131 J
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	0.837 J	72.4	1.65 J	128,000	37.9	<0.07	649,000	11,500	<0.121
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.704	76	1.92 J	130,000	36	<0.07	657,000	11,600	<0.121
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.704	80.7	2.29	138,000	38.2	<0.07	703,000	11,500	<0.121
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.704	81.2	2.1	123,000	36.5	<0.07	702,000	11,700	<0.121
ZTS-MW197	9/17/2024	N	PM06	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.704	78.5	2.03	118,000	35.8	<0.07	703,000	11,200	<0.121
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0.954 J	77.9	2.54	149,000	38.8	<0.07	684,000	11,300	0.162 J
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0.943 J	78.7	2.51	120,000	39.6	<0.07	720,000	12,400	0.131 J
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	1.97 J	68.8	2.97	109,000	34.2	<0.07	611,000	12,400	0.147 J
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.704	85	1.84 J	131,000	34.5	<0.07	699,000	11,500	0.141 J
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.704	80.5	2.07	118,000	36.8	<0.07	714,000	11,700	<0.121
ZTS-MW113	9/19/2024	N	PM06	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0.95 J	82.7	2.64	90,800	32.7	<0.07	689,000	13,900	0.177 J
Test Area 2B																	
Pre-Construction Baseline Results																	
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	21.7	75	<0.816	151,000	35.1	<0.07	780,000	8,890	<0.121
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	122	----	----	----	----	----	----	----	----
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	123	27.4	<0.816	94,700	<0.3	<0.07	426,000	3,420	<0.121
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	117	27.5	<0.816	93,800	<0.3	<0.07	416,000	3,380	<0.121
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	26.6	71.6	2.85	179,000	40.4	<0.07	704,000	11,400	<0.121
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	30.7	54.7	<0.816	153,000	38.8	<0.07	765,000	11,100	<0.121
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	361	31.2	<0.816	102,000	8.42	<0.07	458,000	5,240	<0.121
Post-Construction Performance Monitoring Results																	

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	6.45	108	<0.816	152,000	40.1	<0.07	743,000	11,200	<0.121
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	5.68	104	<0.816	151,000	39.8	<0.07	718,000	10,100	<0.121
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	6.56 J+	128	<0.816	148,000	41.6	<0.07	781,000	11,200	<0.121
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	2.61 J	137	<0.816	158,000	46	<0.07	787,000	11,200	<0.121
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	2.38 J	125	<0.816	151,000	41.3	0.114 J	720,000	9,670	<0.121
ZTS-MW133	9/17/2024	N	PM06	2B	Upgradient	-9	UMCf	54.0 - 69.0	2.58 J	140	<0.816	156,000	44.3	<0.07	790,000	10,800	<0.121
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	65.5	12.1	1.01 J	80,200	<0.3	<0.07	381,000	4,330	<0.121
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	73.9	15	<0.816	113,000	<0.3	<0.07	575,000	6,240	<0.121
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	89.3	23.8	32.9	134,000	6.62	1.61 J	641,000	8,210	12.9
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	52.9	22.5	<0.816	143,000	<0.3	<0.07	718,000	8,540	<0.121
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	55.3	24.4	1.65 J	142,000	<0.3	<0.07	690,000	8,510	<0.121
ZTS-MW117	9/17/2024	N	PM06	2B	Upgradient	-2	UMCf	40.5 - 55.5	57.5	23.7	<0.816	142,000	<0.3	<0.07	681,000	8,790	<0.121
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	17.7	72.1	3.32	138,000	35.4	<0.07	657,000	11,600	<0.121
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	4.9 J	72.3	2.63	128,000	36.3	<0.07	703,000	11,300	<0.121
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	14.7	64.7	2.26	126,000	30.7	<0.07	648,000	11,200	<0.121
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	79.3	41	2.06	137,000	15.9	<0.07	710,000	12,200	<0.121
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	18.9	71.4	2.98	124,000	29.6	<0.07	703,000	11,800	<0.121
ZTS-MW134	9/19/2024	N	PM06	2B	Upgradient	-2	UMCf	26.0 - 36.0	44.2	62	2.37	117,000	25.4	<0.07	707,000	11,300	<0.121
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	187	29.8	3	120,000	4.73	<0.07	622,000	8,550	<0.121
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	82.9	35.2	1.22 J	124,000	11.4	<0.07	643,000	9,590	<0.121
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	155	16.3	0.947 J	147,000	0.888 J	<0.07	726,000	9,310	<0.121
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	99.8	12.7	<0.816	137,000	1.44 J	<0.07	704,000	9,790	<0.121
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	94.2	17.7	7.77	135,000	<3	0.207 J	714,000	8,690	<0.121
ZTS-MW198	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	26.1 - 46.0	80.9	25.5	<0.816	138,000	6.87	<0.07	743,000	10,300	<0.121
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	493	35	0.903 J	134,000	0.873 J	<0.07	753,000	10,200	<0.121
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	484	34.7	0.855 J	137,000	0.781 J	<0.07	739,000	10,100	<0.121
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	595	28.9	20.1	142,000	0.904 J	<0.07	724,000	9,620	<0.121
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	630	28.7	<0.816	154,000	0.733 J	<0.07	790,000	11,200	<0.121
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	549	29.8	3.61	147,000	0.48 J	<0.07	757,000	10,500	<0.121
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	493	33.7 J	<8.16	160,000	<3	<0.7	796,000	9,140	<1.21
ZTS-MW200	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	382	38.3	<0.816	146,000	0.741 J	<0.07	789,000	9,850	<0.121
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	218	79.2	3.15	127,000	7.21	<0.07	617,000	8,300	<0.121
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	312	79.3	1.6 J	120,000	21.4	<0.07	613,000	8,900	<0.121
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	203	91	1.09 J	138,000	21.1	<0.07	703,000	10,400	<0.121
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	133	86.3	1.07 J	144,000	20.8	<0.07	726,000	9,800	<0.121
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	129	93.5	1.89 J	140,000	24.4	<0.07	762,000	11,000	<0.605
ZTS-MW201	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	27.1 - 47.0	84.1	124	0.954 J	147,000	45.9	<0.07	802,000	11,200	<0.121
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	527	82.2	3.28	153,000	19.1	<0.07	733,000	9,800	<0.121
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	287	74.9	1.59 J	141,000	35.3	<0.07	685,000	8,940	<0.121
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	239	87.8	1.48 J	162,000	36.8	<0.07	760,000	11,500	<0.121
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	194	104	1.41 J	151,000	38	<0.07	760,000	10,900	<0.121
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	166	109	2.1	154,000	42.4	<0.07	748,000	10,300	<0.605
ZTS-MW206	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	99.9	128	0.985 J	154,000	45.3	<0.07	782,000	10,500	<0.121
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	281	95.8	1.96 J	130,000	44.2	<0.07	758,000	11,100	<0.121
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	107	82.4	0.986 J	126,000	48.6	<0.07	699,000	10,300	0.135 J
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	67.4	97	<0.816	143,000	51.8	<0.07	771,000	12,700	0.137 J
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	49.9	97.8	<0.816	141,000	52.8	<0.07	784,000	11,900	0.167 J
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	43 J	111	<8.16	157,000	59	<0.7	847,000	11,300	<1.21
ZTS-MW199	9/19/2024	N	PM06	2B	Downgradient	5	UMCf	50.1 - 65.0	26.8	113	1.01 J	144,000	55.2	<0.07	830,000	11,400	0.141 J
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	228	59.8	2.17	108,000	5.59	<0.07	526,000	6,520	<0.121
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	266	67.7	2.45	122,000	6.02	<0.07	548,000	7,440	<0.121

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Table 2
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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	109	113	1.26 J	119,000	2.96 J+	<0.07	575,000	6,490	<0.121
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	111	115	1.27 J	117,000	2.86 J+	<0.07	565,000	6,400	<0.121
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	58.4	154	<0.816	115,000	3.6	<0.07	508,000	6,170	<0.121
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	60.7	165	0.902 J	119,000	3.22	<0.07	543,000	6,700	<0.121
ZTS-MW207	2/22/2024	N	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	40.3	225	0.932 J	126,000	3.88	<0.07	611,000	7,050	<0.121
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	41.1	225	0.866 J	123,000	3.85	<0.07	602,000	6,940	<0.121
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	35.1	254	1.5 J	129,000	4.61	<0.07	619,000	6,990	<0.121
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	36.8	251	1.34 J	129,000	5.2	<0.07	619,000	7,220	<0.121
ZTS-MW207	9/17/2024	N	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	50.1	236	1.61 J	138,000	24.9	<0.07	732,000	10,000	<0.121
ZTS-MW207	9/17/2024	FD	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	50.2	236	1.58 J	139,000	23.8	<0.07	730,000	9,960	<0.121
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	505	123	3.35	138,000	54.3	<0.07	796,000	11,700	0.165 J
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	261	114	1.87 J	138,000	57.7	<0.07	825,000	11,700	0.156 J
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	153	122	4.47	134,000	57	<0.07	773,000	11,900	0.154 J
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	125	131	1.3 J	149,000	60.5	<0.07	862,000	11,900	0.186 J
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	94.7	138	1.95 J	145,000	60.5	<0.07	819,000	11,600	0.168 J
ZTS-MW135	9/17/2024	N	PM06	2B	Downgradient	7	UMCf	54.0 - 69.0	83	120	1.19 J	181,000	60.4	<0.07	923,000	12,900	0.183 J
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	153	80.4	<0.816	99,300	0.76 J	<0.07	428,000	4,130	<0.121
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	152	80.7	<0.816	103,000	0.761 J	<0.07	429,000	4,010	<0.121
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	104	125	<0.816	103,000	0.518 J	<0.07	432,000	4,210	<0.121
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	109	127	2.23	101,000	0.569 J	<0.07	434,000	3,980	<0.121
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	79.4	193	<0.816	106,000	0.448 J	<0.07	450,000	4,680	<0.121
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	76.8	190	<0.816	110,000	<0.3	<0.07	451,000	4,580	<0.121
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	50.5	248	<0.816	116,000	<0.3	<0.07	481,000	4,900	<0.121
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	52	244	<0.816	117,000	0.37 J	<0.07	507,000	4,870	<0.121
ZTS-MW136	5/21/2024	N	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	53.4	278	<0.816	115,000	1.35 J	<0.07	478,000	5,120	<0.605
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	54.8	279	<0.816	116,000	1.4 J	<0.07	509,000	5,390	<0.605
ZTS-MW136	9/12/2024	N	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	55	280	<0.816	122,000	0.609 J	<0.07	516,000	5,600	<0.121
ZTS-MW136	9/12/2024	FD	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	55.8	278	<0.816	125,000	0.362 J	<0.07	518,000	5,780	<0.121
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	58.4	64.3	4.11	134,000	26.9	<0.07	626,000	10,800	0.138 J
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	10.4	75.7	2.97	140,000	32.4	<0.07	734,000	11,300	0.197 J
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	7.95	71.2	1.51 J	140,000	29.4	<0.07	689,000	12,100	0.126 J
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	18	70.3	1.74 J	139,000	30.3	<0.07	684,000	11,600	<0.121
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	10.8	68.8	1.57 J	112,000	27.2	<0.07	623,000	10,200	<0.121
ZTS-MW208	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	26.1 - 46.0	10.9	87.3	1.26 J	126,000	33.4	<0.07	712,000	11,600	<0.121
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	186	158	1.44 J	146,000	52.9	<0.07	807,000	12,100	<0.121
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	127	156	1.84 J	144,000	64.8	<0.07	881,000	12,100	<0.121
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	89.4	161	1.02 J	139,000	66.3	<0.07	804,000	12,300	0.27 J
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	76	159	1.14 J	148,000	65	<0.07	872,000	12,300	0.195 J
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	56.3	148	1.53 J	137,000	58.2	<0.07	775,000	11,300	0.168 J
ZTS-MW209	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	50.6 - 65.5	41.5	119	<4.08	184,000	51.1	<0.35	925,000	12,100	<0.605
Test Area 2C																	
Pre-Construction Baseline Results																	
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	43.3	96.9	3.26	141,000	40.2	<0.07	782,000	12,100	<0.121
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	95.2	----	----	----	----	----	----	----	----
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.704	102	2.42	131,000	39.7	<0.07	701,000	13,300	<0.121
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.704	96.8	2.23	137,000	40.2	<0.07	755,000	13,900	<0.121
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	28.8	96.8	2.94	116,000	43	<0.07	716,000	13,900	<0.121
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	5.99	110	2.79	135,000	39.5	<0.07	686,000	12,100	<0.121
LVWPS-MW102A	10/21/2022	N	BL02	2C	Downgradient	30	UMCf	47.0 - 66.6	20	73.1	<0.816	519,000	56.5	<0.07	1,250,000	10,600	<0.121
LVWPS-MW102B	10/21/2022	N	BL02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	204	<34.8	<0.816	4,840,000	<0.3	<7	8,060,000	10,400	<12.1
Post-Construction Performance Monitoring Results																	

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.704	98.8	2.25	118,000	39.9	<0.07	698,000	11,300	<0.121
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.704	101	2.28	118,000	40.9	<0.07	728,000	11,900	<0.121
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.704	101	2.05	116,000	37.7	<0.07	705,000	10,600	<0.121
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.704	98.9	2.02	116,000	38.6	<0.07	672,000	11,500	<0.121
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	0.837 J	98.3	2.3	117,000	38.7	<0.07	793,000	12,100	0.156 J
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.704	98.6	2.19	114,000	37.8	<0.07	784,000	11,800	<0.121
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.704	92.3	1.59 J	112,000	35.4	<0.07	723,000	12,700	<0.121
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.704	91.5	1.49 J	110,000	35.6	<0.07	721,000	12,600	<0.121
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	6.12	96.6	2.18	103,000	35	<0.07	752,000	12,800	<0.121
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	5.63	97	2.37	103,000	36.4	<0.07	752,000	12,400	<0.121
ZTS-MW140	9/11/2024	N	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	2.1 J	92.5	2.28	105,000	35.6	0.0818 J	735,000	12,300	<0.121
ZTS-MW140	9/11/2024	FD	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	1.21 J	92.1	2.32	103,000	35.2	<0.07	730,000	12,100	<0.121
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	0.704 J	95.5	2.4	121,000	39.1	<0.07	689,000	11,000	<0.121
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.704	101	2.2	113,000	38.6	<0.07	682,000	11,800	<0.121
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.704	97.9	2.21	118,000	37.8	<0.07	781,000	12,100	<0.121
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.704	91.3	1.57 J	110,000	34.9	<0.07	712,000	11,400	<0.121
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.704	92.9	2.26	105,000	37.6	<0.07	743,000	12,200	<0.121
ZTS-MW119	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	15.0 - 25.0	1 J	92.6	1.98 J	104,000	35.4	<0.07	719,000	12,100	<0.121
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2 J	102	2.48	96,300	40	<0.07	703,000	12,500	<0.121
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.704	100	2.29	100,000	36.9	<0.07	718,000	12,700	<0.121
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0.951 J	92.1	2.23	115,000	36.3	<0.07	749,000	11,800	<0.121
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0.927 J	92.6	2.57	95,000	35.9	<0.07	731,000	12,100	<0.121
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.704	99.2	2.47	93,100	36.2	0.0812 J	757,000	13,300	<0.121
ZTS-MW181	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0.855 J	96.7	2.17	95,200	36	<0.07	711,000	13,800	<0.121
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2.33 J	95	3.82	122,000	39.5	<0.07	729,000	11,500	<0.121
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.704	97.6	2.26	122,000	36.7	<0.07	711,000	11,300	<0.121
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	3.01 J	95.2	2.46	103,000	37.4	<0.07	777,000	13,900	<0.121
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.704	94.5	2.02	114,000	36.2	<0.07	773,000	11,700	<0.121
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	1.51 J	95.2	2.1	108,000	36.6	<0.07	735,000	11,300	<0.121
ZTS-MW188	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	2.21 J	92.3	2.09	105,000	35.5	<0.07	730,000	11,500	<0.121
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	273	41.5	1.56 J	86,500	16.9	<0.07	480,000	6,380	<0.121
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	229	51.5	1.64 J	93,000	19	<0.07	515,000	7,430	<0.121
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	159	34.5	1.28 J	87,300	17.4	<0.07	493,000	6,700	<0.121
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	165	33.3	<0.816	83,300	13.6	<0.07	484,000	6,840	<0.121
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	152	28.3	1.07 J	80,900	12.3	<0.07	452,000	5,650	<0.121
ZTS-MW204	9/11/2024	N	PM06	2C	Upgradient	-3	UMCf	30.3 - 40.0	138	18.4	0.953 J	77,500	8.56	<0.07	416,000	4,890	<0.121
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	165	78	3.05	114,000	28.1	<0.07	709,000	13,100	<0.121
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	83.5	77.1	2.36	112,000	26.2	<0.07	711,000	12,400	0.143 J
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	89.4	86.7	2.24	120,000	32.3	<0.07	756,000	12,600	<0.121
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	107	76.5	2.38	107,000	28.5	<0.07	714,000	13,600	<0.121
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	52.2	91.3	2.02	104,000	29.5	<0.07	748,000	12,400	0.153 J
ZTS-MW182	9/6/2024	N	PM06	2C	Center of Array	0	Alluvium	17.6 - 27.3	55.9	82.5	1.99 J	98,500	28.8	<0.07	700,000	12,300	<0.121
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	54.4	91.9	3.53	112,000	31.8	<0.07	709,000	13,300	<0.121
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	6.42	88.7	1.94 J	108,000	34.7	0.108 J	700,000	12,200	0.186 J
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	2.86 J	100	2.17	126,000	40.9	<0.07	771,000	12,800	<0.121
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	2.75 J	92	2.43	111,000	35.7	0.0965 J	740,000	12,000	<0.121
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	1.36 J	96.3	1.96 J	109,000	35.7	<0.07	697,000	13,500	<0.121
ZTS-MW183	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	17.3 - 27.0	0.822 J	90.1	2	100,000	34.5	<0.07	713,000	12,500	<0.121
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	89.4	88.2	2.25	119,000	31.1	<0.07	693,000	11,700	<0.121
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	54.8	93.4	2.69	120,000	39.7	<0.07	797,000	12,700	<0.121

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	19.5	82.1	1.09 J	113,000	36.5	<0.07	628,000	11,400	<0.121
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	13.6	83.1	2.13	113,000	32.9	<0.07	740,000	11,700	<0.121
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	24.6	89	2.12	105,000	32	<0.07	664,000	13,000	<0.121
ZTS-MW187	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	15.3 - 25.0	22.4	84.4	1.86 J	100,000	33	<0.07	710,000	12,200	<0.121
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	28.4	92.7	10.1	119,000	37.4	<0.07	711,000	13,000	<0.121
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	0.895 J	96.3	2.43	116,000	41.4	<0.07	830,000	12,900	<0.121
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.704	92.2	1.46 J	116,000	40.9	<0.07	669,000	11,000	<0.121
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	1.85 J	86.5	1.4 J	110,000	35.2	<0.07	707,000	11,700	<0.121
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	1.89 J	92.7	2.37	97,200	36.4	<0.07	725,000	14,400	<0.121
ZTS-MW141	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	14.5 - 24.5	2.3 J	86.6	2.24	101,000	35.2	<0.07	755,000	12,000	<0.121
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	78.9	97.6	7.89	113,000	32.4	<0.07	711,000	12,200	<0.121
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	34	100	2.71	117,000	36	<0.07	789,000	13,100	<0.121
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	33 J+	86.3	2.48	111,000	33.3	<0.07	697,000	13,100	<0.121
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	4.33 J	89.4	1.54 J	107,000	32.9	<0.07	682,000	13,000	<0.121
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	8.03	95.7	2.21	119,000	34.3	<0.07	733,000	11,900	<0.121
ZTS-MW142	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.704	88.6	2.45	105,000	32.1	0.1 J	745,000	11,700	<0.121
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	8.31	94.1	2.47	101,000	36.3	<0.07	699,000	14,000	<0.121
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	5.39	79.2	1.86 J	88,600	36.1	<0.07	638,000	13,100	<0.121
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	1.03 J	100	2.32	116,000	40.5	<0.07	783,000	14,400	<0.121
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.704	89	7.02	113,000	36.1	<0.07	755,000	12,100	<0.121
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	0.819 J	98.8	3.07	107,000	37.2	<0.07	701,000	13,600	<0.121
ZTS-MW184	9/6/2024	N	PM06	2C	Downgradient	5	Alluvium	16.3 - 26.0	1.39 J	87.5	2.08	99,000	35.4	<0.07	755,000	13,600	<0.121
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	318	6.42	1.63 J	63,500	0.524 J	<0.07	324,000	2,930	<0.121
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	446	8.67	1.01 J	67,700	1.29 J	<0.07	374,000	2,980	<0.121
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	425	3.64 J	<0.816	61,700	<0.3	<0.07	294,000	2,470	<0.121
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	314	9.68	0.941 J	71,600	5.74	<0.07	383,000	3,960	<0.121
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	166	2.36 J	<0.816	65,100	0.501 J	<0.07	325,000	2,900	<0.121
ZTS-MW205	9/9/2024	N	PM06	2C	Downgradient	5	UMCf	30.3 - 40.0	181	3.02 J	<0.816	67,200	1.59 J	<0.07	355,000	3,030	<0.121
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	8.18	89.2	8.23	104,000	36.4	<0.07	719,000	14,800	0.143 J
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	1.02 J	95.1	2.18	109,000	40.4	<0.07	789,000	13,100	<0.121
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.704	83.4	1.81 J	105,000	34.8	<0.07	658,000	11,600	<0.121
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	0.904 J	85.2	1.44 J	111,000	35.2	<0.07	719,000	11,000	<0.121
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.704	92.4	2.05	97,400	35.2	<0.07	729,000	12,700	<0.121
ZTS-MW185	9/10/2024	N	PM06	2C	Downgradient	15	Alluvium	15.3 - 25.0	5.87	83.4	2.26	86,100	34.7	<0.07	766,000	15,000	<0.121
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	6.18	91.5	6.08	111,000	34.7	<0.07	707,000	14,400	<0.121
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	0.725 J	95.2	2.13	114,000	38.9	<0.07	768,000	13,300	<0.121
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.704	85.4	1.81 J	107,000	35.5	<0.07	667,000	12,600	<0.121
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	1.45 J	91.5	2.24	119,000	37	<0.07	783,000	11,800	<0.121
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.704	92.6	2.09	107,000	35.2	<0.07	745,000	12,400	<0.121
ZTS-MW186	9/10/2024	N	PM06	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.704	87.7	2.17	99,800	34.1	<0.07	760,000	12,600	<0.121
LVWPS-MW102A	5/30/2023	N	PM01	2C	Downgradient	30	UMCf	47.0 - 66.6	23.9	81.8	<0.816	514,000	55.8	<0.07	1,240,000	10,900	<0.121
LVWPS-MW102A	8/23/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	23.7	85	0.842 J	491,000	65.5	<0.07	1,280,000	12,000	0.146 J
LVWPS-MW102A	10/11/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----	----
LVWPS-MW102A	10/11/2023	FS	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	2C	Downgradient	30	UMCf	47.0 - 66.6	20.3	88.7	1.25 J	401,000	62.1	<0.07	1,160,000	11,700	<0.121
LVWPS-MW102A	2/27/2024	N	PM04	2C	Downgradient	30	UMCf	47.0 - 66.6	30	103	0.937 J	499,000	63.5	<0.07	1,360,000	12,200	<0.121
LVWPS-MW102A	5/23/2024	N	PM05	2C	Downgradient	30	UMCf	47.0 - 66.6	27.6	107	<0.816	437,000	62.1	<0.07	1,040,000	13,200	<0.121
LVWPS-MW102A	9/17/2024	N	PM06	2C	Downgradient	30	UMCf	47.0 - 66.6	28	122	<0.816	460,000	63.8	0.0806 J	1,290,000	12,100	<1.21
LVWPS-MW102B	5/26/2023	N	PM01	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	183	<17.4	<0.816	4,840,000	<0.3	<3.5	8,030,000	10,900	<6.05
LVWPS-MW102B	8/23/2023	N	PM02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	183	<3.48	<8.16	4,790,000	5.59 J	<0.7	7,900,000	11,500	<1.21
LVWPS-MW102B	12/1/2023	N	PM03	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	178	<3.48	<8.16	4,590,000	<3	<0.7	7,310,000	11,200	<1.21

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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	Dissolved Metals by SW6020
									Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium
						feet			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LVWPS-MW102B	2/27/2024	N	PM04	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	217	<3.48	<0.816	4,910,000	<0.3	<0.7	7,580,000	11,700	<1.21
LVWPS-MW102B	5/23/2024	N	PM05	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	204	<0.348	<0.816	4,910,000	<0.3	0.083 J	7,480,000	11,700	<1.21
LVWPS-MW102B	9/17/2024	N	PM06	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	195	<3.48	<8.16	4,700,000	<3	<0.7	7,690,000	9,660	<1.21
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	8.02	85.6	6.98	143,000	36.3	<0.07	688,000	12,500	<0.121
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	0.742 J	85.8	2.04	139,000	36.2	<0.07	709,000	11,200	<0.121
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.704	85.8	2.1	134,000	38.1	<0.07	698,000	11,500	<0.121
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.704	83.7	2.26	137,000	36.9	<0.07	766,000	11,700	<0.121
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.704	84.9	1.99 J	127,000	36.1	<0.07	722,000	11,300	<0.121
ZTS-MW189	9/10/2024	N	PM06	2C	Downgradient	55	Alluvium	12.8 - 23.0	4.06 J	83.4	2.22	121,000	34.4	<0.07	745,000	11,200	<0.121
General Vicinity																	
Pre-Construction Baseline Results																	
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	132	----	----	----	----	----	----	----	----
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	20.4	71	2.28	189,000	16.4	<0.07	703,000	11,500	<0.121
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	379	----	----	----	----	----	----	----	----
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	172	31.3	3.66	139,000	30.5	<0.07	665,000	12,700	<0.121
Post-Construction Performance Monitoring Results																	
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	17.8	77.8	1.32 J	204,000	14.4	<0.07	667,000	10,900	0.269 J
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	11.3	75.7	1.3 J	197,000	14.8	<0.07	656,000	10,400	0.284 J
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	14.3	83	45.5	205,000	16.3	<0.07	726,000	10,900	0.272 J
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	5.31	84.9	1.24 J	219,000	18.7	<0.07	719,000	12,200	0.295 J
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	3.13 J	75.7	1.13 J	209,000	15.4	0.0858 J	663,000	11,600	0.3 J
ZTS-MW116	9/12/2024	N	PM06	NA	NA	NA	UMCf	33.0 - 48.0	1.76 J	81.5	1.33 J	217,000	16.5	<0.07	731,000	12,400	0.292 J
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	53.6	29.5	2.42	145,000	26.9	<0.07	645,000	11,600	0.215 J
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	6.53	31.9	2.29	129,000	28.2	<0.07	603,000	12,200	0.202 J
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	3.89 J	36.5	2.41	130,000	31	<0.07	667,000	13,000	0.202 J
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	49.5	24.6	2.06	148,000	19.1	<0.07	553,000	9,760	0.163 J
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	26.4	33.3	2.58	133,000	27	<0.07	698,000	12,900	0.185 J
ZTS-MW128	9/12/2024	N	PM06	NA	NA	NA	UMCf	42.0 - 52.0	1.93 J	32.9	2.43	141,000	27.5	<0.07	668,000	13,000	0.206 J

Notes:
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 the sample.
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 may or may not be present in the sample.
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
< The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
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
PM05 Hydrogen samples cancelled with lab due to instrument failure.

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
Test Area 1A																	
Pre-Construction Baseline Results																	
ZTS-MW143	10/18/2022	N	BL02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.655	<2.18	27	91.5	4.62	4.28	0 U	218.2	7.08
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	----	----	----	6.3	3.9	----	134.4	7.04
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	<0.655	<2.18	25.2 J	<3.02	6.208	4.32	0 U	106.3	7.16
ZTS-MW124	10/18/2022	FD	BL02	1A	Upgradient	-8	Alluvium	24.0 - 34.0	<0.655	<2.18	<0.664 UJ	<3.02	----	----	----	----	----
ZTS-MW125	8/31/2022	N	BL01	1A	Upgradient	-8	UMCf	40.0 - 50.0	----	----	----	----	6.736	1.97	----	117.1	7.17
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.655	<2.18	<0.664	<3.02	3.123	1.61	0 U	-17.9	7.4
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	<0.655	<2.18	23.5	125	4.384	2.79	0 U	146.8	7.05
Post-Construction Performance Monitoring Results																	
ZTS-MW143	5/26/2023	N	PM01	1A	Upgradient	-50	Alluvium	23.0 - 33.0	0.951 J	<2.18	24.4	<3.02	7.019	3.68	0 U	124.3	7.02
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	1.91 J	<2.18	24.7	<3.02	6.855	3.61	0 U	329.7	6.97
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.655	<2.18	27.1	<3.02	7.23	1.79	0 U	184.1	6.92
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.655	<2.18	28.8	<3.02	7.264	3.11	0 U	191.2	6.95
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.655	<2.18	25.3	<3.02	6.272	5.02	0 U	396.9	7.19
ZTS-MW143	9/13/2024	N	PM06	1A	Upgradient	-50	Alluvium	23.0 - 33.0	<0.655	<2.18	26.1	<3.02	5.838	3.9	0 U	121.5	6.9
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	0.761 J	<2.18	25.3	<3.02	6.982	4.37	0 U	145.3	7.1
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.655	<2.18	25.3	<3.02	5.955	3.94	0 U	410.5	7.03
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.655	<2.18	25	<3.02	6.638	3.63	----	130.4	7.13
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.655	<2.18	25.3	3.24 J	6.087	2.93	0 U	155	7.03
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.655	<2.18	24.2	<3.02	5.759	5.21	0 U	439.1	7.28
ZTS-MW124R	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.5 - 34.0	<0.655	<2.18	24.4	<3.02	6.483	4.3	0 U	499.4	7.19
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	0.743 J	<2.18	1.77 J	12.2 J	5.464	0.59	0 U	66.5	7.46
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.655	<2.18	2.21 J	<3.02	3.785	0.43	0 U	-122.7	7.34
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.655	<2.18	1.48 J	<3.02	3.982	0.31	0 U	-158.3	7.44
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.655	<2.18	<0.664	<3.02	3.624	0.26	0 U	-146.3	7.36
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	<0.655	<2.18	0.972 J	<3.02	4.081	0.37	0 U	-151.5	7.39
ZTS-MW125	9/16/2024	N	PM06	1A	Upgradient	-8	UMCf	40.0 - 50.0	1.2 J	<2.18	<0.664	7.19 J	1.253	0.36	0 U	277.9	7.23
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	1.15 J	<2.18	25.5	<3.02	6.979	4.71	0 U	134.8	7.11
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	24.3	3.14 J	5.612	3.55	0 U	406.7	7.01
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	25.4	<3.02	6.179	2.77	0 U	43.8	7.04
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	25.6	<3.02	6.072	3.06	0 U	158.8	7
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	26	<3.02	5.947	3.84	0 U	214.4	7.08
ZTS-MW153	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	24.9	<3.02	5.952	3.17	0 U	77.4	7
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	25.8	<3.02	7.291	3.76	0 U	184.5	7.17
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0.661 J	<2.18	24.3	4.01 J	5.529	3.67	0 U	135.5	7.15
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	25.9	<3.02	6.299	3.08	0 U	75.2	7.06
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	26.8	<3.02	5.952	4.93	0 U	160.3	7.09
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	26.3	<3.02	6.081	4.08	0 U	212.6	7.12
ZTS-MW163	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	<0.655	<2.18	24.8	<3.02	6.616	-39.61	0 U	334.9	6.91
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.655	<2.18	<0.664	<3.02	4.896	0.17	6.5	-386.4	8.09
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.655	<2.18	<0.664	3.58 J	5.112	0.56	2	-260.3	8.08
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.655	<2.18	<0.664	<3.02	6.322	0.03	3.5	-277.9	8.17
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.655	<2.18	<0.664	<3.02	6.634	0.03	0 U	-320.6	8.06
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.655	<2.18	<0.664	<3.02	5.926	0	1.5	-283.9	8.35
ZTS-MW150	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	24.3 - 34.0	<0.655	<2.18	<0.664	<3.02	5.43	0.27	1	-232	8.14
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	6.88	5.789	0.19	6.5	-346.5	8.4
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	5.508	0.34	4	-303.1	7.88
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	7.218	-0.03	3.5	-306.6	7.86

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	6.188	0.11	0.5	-283.3	8
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	6.232	0.1	0.5	-249.8	8.29
ZTS-MW154	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	5.583	0.1	1	-277.6	8.25
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	6.482	0.46	0.5	-241.1	8.27
ZTS-MW164	5/23/2023	FD	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	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	<0.655	<2.18	<0.664	16.1 J	6.159	0.35	0 U	-240.7	8.22
ZTS-MW164	8/18/2023	FD	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<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	<0.655	<2.18	<0.664	<3.02	6.568	1.38	0 U	-190.2	8.17
ZTS-MW164	11/27/2023	FD	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<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	<0.655	<2.18	<0.664	<3.02	6548	0.39	0 U	-258.2	8.55
ZTS-MW164	2/20/2024	FD	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<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	<0.655	<2.18	<0.664	<3.02	5.852	0.18	0 U	-226.2	8.33
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	----	----	----	----	----
ZTS-MW164	9/6/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	5.803	0.2	0 U	-162.3	8.44
ZTS-MW164	9/6/2024	FD	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	<0.655	<2.18	<0.664	<3.02	----	----	----	----	----
ZTS-MW151	5/25/2023	N	PM01	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.655	<2.18	6.68	<3.02	8.659	0.73	0 U	11.4	6.87
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.655	<2.18	7.15	3.52 J	5.561	6.12	0 U	79.3	7.47
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.655	<2.18	5.91	<3.02	7.456	0.07	0.5	20	7.26
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.655	<2.18	4.28 J	<3.02	6.505	0.3	0 U	5.2	7.22
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.655	<2.18	4.27 J	<3.02	6.283	0.13	0.2	146.3	7.39
ZTS-MW151	9/11/2024	N	PM06	1A	Downgradient	5	Alluvium	24.3 - 34.0	<0.655	<2.18	4.29 J	<3.02	5.591	0.17	0.5	101.7	7.32
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	<0.664	3.97	5.914	0.57	1	-37.6	7.07
ZTS-MW155	5/24/2023	FD	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	<0.664	5.79	----	----	----	----	----
ZTS-MW155	8/22/2023	N	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	3.89 J	3.14 J	5.914	1	0 U	29.5	7.39
ZTS-MW155	8/22/2023	FD	PM02	1A	Downgradient	5	Alluvium	20.3 - 35.0	<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	<0.655	<2.18	3.38 J	<3.02	7.756	0.17	1	59.6	7.34
ZTS-MW155	11/28/2023	FD	PM03	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	3.49 J	<3.02	----	----	----	----	----
ZTS-MW155	2/21/2024	N	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	2.95 J	<3.02	6.631	0.33	0 U	82.5	7.33
ZTS-MW155	2/21/2024	FD	PM04	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	2.8 J	<3.02	----	----	----	----	----
ZTS-MW155	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	2.91 J	<3.02	6.37	0.19	0 U	89.5	7.46
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	2.97 J	<3.02	----	----	----	----	----
ZTS-MW155	9/10/2024	N	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	1.86 J	<3.02	5.848	2.21	0 U	90	7.4
ZTS-MW155	9/10/2024	FD	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	<0.655	<2.18	1.82 J	<3.02	----	----	----	----	----
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	0.688	<2.18	<0.664	4.42	4.892	0.39	1.5	-205.4	7.55
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.655	<2.18	<0.664	<3.02	4.194	3.67	0 U	-113.3	7.55
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.655	<2.18	<0.664	<3.02	4.851	0.12	0 U	-187.4	7.44
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.655	<2.18	<0.664	<3.02	4.619	0.24	0 U	-208.3	7.34
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.655	<2.18	<0.664	<3.02	4.621	0.1	0 U	-152.5	7.5
ZTS-MW156	9/9/2024	N	PM06	1A	Downgradient	5	UMCf	43.8 - 53.5	<0.655	<2.18	<0.664	3.07 J	4.509	0.8	0.5	-167.6	7.86
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.655	<2.18	2.76 J	4.21 J	8.746	0.25	0 U	5.9	7.5
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.655	<2.18	2.53 J	<3.02	5.684	0.52	0 U	-9.3	7.42
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.655	<2.18	2.13 J	<3.02	6.715	0.16	0 U	138.2	7.34
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.655	<2.18	2.15 J	<3.02	6.265	0.35	0 U	-15.9	7.3
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.655	<2.18	2.15 J	<3.02	6.326	0.17	0 U	133.5	7.36
ZTS-MW165	9/6/2024	N	PM06	1A	Downgradient	5	Alluvium	22.3 - 32.0	<0.655	<2.18	2.72 J	3.56 J	5.905	0.44	0.5	21	7.27
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	0.904 J	<2.18	14.5	<3.02	8.979	0.75	0 U	66	6.5
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	10.4	3.52 J	5.78	0.5	0 U	36	7.39
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	10.8	<3.02	7.75	0.16	0.5	44.6	7.2
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	8.86	<3.02	6.509	0.36	0 U	35.2	7.16
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	8.4	<3.02	6.543	0.19	0 U	130.1	7.22
ZTS-MW152	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	7.61	<3.02	6.037	0.22	0 U	79.1	7.1

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	5.33	<3.02	9.444	0.79	0 U	93.5	6.46
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	5.14	<3.02	5.956	0.45	0 U	89.5	7.43
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	4.56 J	<3.02	7.213	0.16	0 U	-24.2	7.42
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	6	<3.02	6.709	0.32	0 U	92.7	7.27
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	5.68	<3.02	6.35	0.19	0 U	23.2	7.46
ZTS-MW157	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	4.11 J	<3.02	5.765	0.2	0.5	107.6	7.25
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	6.12	<3.02	9.658	0.8	0 U	102.3	6.86
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	0.761 J	<2.18	5.59	20.4 J	6.662	0.35	0 U	310.8	7.22
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	3.85 J	<3.02	6.479	0.31	0 U	127	7.22
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	3.37 J	<3.02	6.807	3	0 U	98.6	7.31
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	4.47 J	<3.02	6.549	0.14	0 U	40.8	7.34
ZTS-MW162	9/9/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	<0.655	<2.18	4.43 J	3.22 J	6.102	0.36	0.5	118.3	7.13
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.655	<2.18	20	<3.02	8.418	4.42	0 U	93.5	7.28
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.655	<2.18	25	4.61 J	5.539	4.01	0 U	89.7	7.12
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.655	<2.18	22.2	<3.02	6.467	2	0 U	157.3	7.04
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.655	<2.18	23.3	<3.02	6.171	2.2	0 U	104.9	6.91
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.655	<2.18	24.3	<3.02	6.083	4.69	0 U	160.9	7.08
ZTS-MW149	9/11/2024	N	PM06	1A	Downgradient	25	Alluvium	23.3 - 33.0	<0.655	<2.18	24.2	<3.02	5.66	3.85	0 U	103.3	7.04
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.655	<2.18	9.21	<3.02	9.078	1.38	0 U	78.6	7.38
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.655	<2.18	10.8	15.5 J	5.716	2.93	0 U	41.7	7.31
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.655	<2.18	10.6	<3.02	6.549	0.21	0 U	105.7	7.3
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.655	<2.18	10.8	5.32 J	6.391	0.49	0 U	75.3	7.27
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.655	<2.18	9.77	<3.02	6.312	0.36	0 U	32.3	7.39
ZTS-MW144	9/11/2024	N	PM06	1A	Downgradient	35	Alluvium	24.0 - 34.0	<0.655	<2.18	8.62	<3.02	5.877	0.39	0 U	77.3	7.27
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.655	<2.18	10.3	<3.02	7.49	0.42	0 U	107.3	7.44
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.655	<2.18	8.4	<3.02	6.138	0.45	0 U	186.7	7.09
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.655	<2.18	12.8	<3.02	8.139	0.02	0 U	465.3	7.28
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.655	<2.18	12.7	<3.02	6.21	0.31	0 U	133.6	7.28
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.655	<2.18	12.2	<3.02	6.281	0.52	0 U	494.8	7.22
ZTS-MW158	9/12/2024	N	PM06	1A	Downgradient	50	Alluvium	23.3 - 33.0	<0.655	<2.18	14	<3.02	6.021	0.27	0 U	65.3	7.23
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.655	<2.18	2.51 J	5.36 J	4.995	0.85	0 U	49.4	7.71
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.655	<2.18	12.4	<3.02	5.288	0.84	0 U	166.1	7.17
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.655	<2.18	14.7	3.18 J	7.407	0.64	0 U	367.9	7.21
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.655	<2.18	12.4	<3.02	5.573	0.98	0 U	117.5	7.21
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.655	<2.18	11.9	4.61 J	5.614	1.86	0 U	439.3	7.22
ZTS-MW159	9/12/2024	N	PM06	1A	Downgradient	50	UMCf	38.8 - 48.5	<0.655	<2.18	9.03	<3.02	4.501	0.94	0 U	37.3	7.23
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.655	<2.18	16.8	<3.02	6.523	0.57	0 U	170.6	7.43
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.655	<2.18	17	<3.02	6.404	0.38	0 U	409.3	7.07
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.655	<2.18	16.6	7.45 J	6.615	1.32	0 U	155.8	7.07
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.655	<2.18	15.6	<3.02	6.243	1	0 U	141.9	7.12
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.655	<2.18	17.6	<3.02	6.257	1.13	0 U	456.8	7.12
ZTS-MW160	9/13/2024	N	PM06	1A	Downgradient	100	Alluvium	23.3 - 33.0	<0.655	<2.18	17.2	<3.02	5.775	0.96	0 U	119.6	6.94
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	0.75 J	<2.18	18.1	<3.02	3.943	1.02	0 U	189.1	7.33
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	15.8	<3.02	6.394	0.41	0 U	180.3	7.02
ZTS-MW161	8/25/2023	FD	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	15.7	3.07 J	----	----	----	----	----
ZTS-MW161	12/1/2023	N	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	17.4	<3.02	6878	0	0 U	63.9	7.18
ZTS-MW161	12/1/2023	FD	PM03	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	17	<3.02	----	----	----	----	----
ZTS-MW161	2/23/2024	N	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	16.9	<3.02	6.231	1.04	0 U	-2.9	7.17
ZTS-MW161	2/23/2024	FD	PM04	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	17.4	<3.02	----	----	----	----	----
ZTS-MW161	5/28/2024	N	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	18.7	<3.02	4.748	0.82	0 U	118.5	7.15
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	18.2	<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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW161	9/13/2024	N	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	19.4	<3.02	5.578	0.78	0 U	137.8	6.94
ZTS-MW161	9/13/2024	FD	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	<0.655	<2.18	19.2	<3.02	----	----	----	----	----
Between Test Area 1A and Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.655	<2.18	<0.664	<3.02	4.985	0.47	0 U	-1.5	7.38
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.655	<2.18	6.72	<3.02	3.424	2.24	0 U	36	7.26
Post-Construction Performance Monitoring Results																	
ZTS-MW145	5/22/2023	N	PM01	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	0.946 J	<2.18	1.17 J	20.7 J	1.198	6.32	0 U	142.7	8.04
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.655	<2.18	<0.664	<3.02	4.453	0.41	0 U	-91	7.32
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.655	<2.18	<0.664	<3.02	5.144	0.12	0 U	-138.7	7.36
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.655	<2.18	0.681 J	<3.02	4.574	8056	0 U	240.4	7.48
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.655	<2.18	<0.664	7.98 J	3.918	6.46	0 U	275.7	7.64
ZTS-MW145	9/16/2024	N	PM06	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	<0.655	<2.18	<0.664	<3.02	4.519	0.9	0 U	-138.4	7.33
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	0.778 J	<2.18	<0.664	3.14 J	6.142	1.47	0 U	-146.5	7.49
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.655	<2.18	<0.664	5.77 J	6.447	0.81	0 U	-160.9	7.54
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.655	<2.18	<0.664	<3.02	6.64	0.26	0 U	-176	7.5
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.655	<2.18	<0.664	<3.02	6.136	0.98	0 U	-170.4	7.47
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.655	<2.18	<0.664	<3.02	6.806	0.34	0 U	-109.1	7.5
ZTS-MW146	9/12/2024	N	PM06	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	<0.655	<2.18	<0.664	<3.02	6.006	0.68	0.5	-148.2	7.36
Test Area 1B																	
Pre-Construction Baseline Results																	
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.655	<2.18	20.8	<3.02	4.784	4.99	0 U	142.2	7.16
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	----	----	----	7.382	1.91	----	111.1	7.25
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.655	<2.18	21.2	<3.02	7.111	3.65	0 U	102.8	7.19
ZTS-MW126	10/18/2022	FD	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.655	<2.18	22.7	<3.02	----	----	----	----	----
ZTS-MW127	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	18.0 - 23.0	----	----	----	----	7.583	2.86	----	124	7.01
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	2.39	<2.18	19.2	<3.02	4.654	2.58	0 U	51.2	6.95
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.655	<2.18	19.5	<3.02	6.419	8.1	0 U	107.4	7.37
LVWPS-MW107A	10/24/2022	N	BL02	1B	Downgradient	50	Alluvium	24.8 - 34.5	<0.655	<2.18	20.8	<3.02	6.222	5.9	0 U	84	7.12
LVWPS-MW107B	10/21/2022	N	BL02	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.655	<2.18	<0.664	<3.02	7.344	2.22	0 U	-170	7.28
LVWPS-MW107C	10/24/2022	N	BL02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<65.5	<2.18	<0.664	<3.02	63.475	3.92	0 U	-5.8	7.46
Post-Construction Performance Monitoring Results																	
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	1.19 J	<2.18	19.9	<3.02	8.526	1.07	0 U	81.9	7.1
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0.683 J	<2.18	18.3	<3.02	6.851	3.09	0 U	209.7	7.01
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.655	<2.18	20	<3.02	6.567	4.2	0 U	179	7.07
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.655	<2.18	20.6	<3.02	6.348	5.03	0 U	21.2	7.16
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<6.55	<21.8	<6.64	<30.2	6.673	4.28	0 U	210.6	7.13
ZTS-MW147	9/16/2024	N	PM06	1B	Upgradient	-50	Alluvium	19.5 - 29.5	<0.655	<2.18	18.6	<3.02	7.389	4.85	0 U	473.5	7.26
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.655	<2.18	26.1	3.26 J	8.193	1.5	0 U	128.8	7.13
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.655	<2.18	24.1	4.03 J	6.176	2.93	0 U	237.9	7
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.655	<2.18	25.5	11.2 J	0.075	7.65	0 U	92.8	7.19
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.655	<2.18	26.3	<3.02	6.23	5.45	0 U	99.7	7.14
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.655	<2.18	24.5	<3.02	6.625	2.7	0 U	186.2	7.07
ZTS-MW126	9/13/2024	N	PM06	1B	Upgradient	-8	Alluvium	20.0 - 30.0	<0.655	<2.18	24.8	<3.02	6.876	2.77	0 U	283.1	7.3
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.655	<2.18	19.7	<3.02	7.884	4.31	0 U	141	7.13
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.655	<2.18	20.8	<3.02	7.334	4.76	0 U	421.1	7.02
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.655	<2.18	21	7 J	6.707	3.25	0 U	83.1	7.04
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.655	<2.18	22.1	<3.02	6.325	5.35	0 U	110.5	7.09
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.655	2.27 J	19.3	<3.02	6.622	6.05	0 U	179.9	7.07
ZTS-MW127R	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	18.5 - 23.0	<0.655	<2.18	20.4	<3.02	7.429	5.52	0 U	471.1	7.17
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	0.762 J	<2.18	18.5	5.26 J	8.117	2.89	0 U	85.2	7.29

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.655	<2.18	21.1	<3.02	7.244	3.59	0 U	351.7	7
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.655	<2.18	19.9	10.2 J	6.582	3.85	0 U	69.9	7.06
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.655	<2.18	21.2	<3.02	6.304	4.74	0 U	126.5	7.11
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.655	<2.18	21.4	<3.02	6.629	4.27	0 U	217.4	7.02
ZTS-MW169	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	17.1 - 27.0	<0.655	<2.18	19.5	<3.02	7.318	4.29	0 U	542.7	7.11
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.655	<2.18	15.5	6.72 J	6.764	1.22	0 U	77.7	7.47
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	0.835 J	<2.18	19	<3.02	5.938	0.91	0 U	375.6	7.12
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.655	<2.18	19.9	8.12 J	5.581	1.09	0 U	64	7.2
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.655	<2.18	20.3	4.49 J	5.406	1.77	0 U	106.3	7.25
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.655	<2.18	18.5	<3.02	5.451	1.11	0 U	201	7.2
ZTS-MW170	9/16/2024	N	PM06	1B	Upgradient	-8	UMCf	31.1 - 41.0	<0.655	<2.18	19.7	<3.02	7.229	4.22	0 U	515.3	7.21
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.655	<2.18	<0.664	<3.02	7.856	0.25	0.5	-226.4	8.43
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.655	<2.18	<0.664	<3.02	5.824	0.33	1	-243.8	8.12
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.655	<2.18	<0.664	<3.02	6.741	1.15	0 U	-195.2	9.03
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.655	<2.18	<0.664	<3.02	6779	0.36	0 U	-281.3	9.27
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.655	<2.18	<0.664	<3.02	6.419	0.01	1.5	-235.8	9.19
ZTS-MW166	9/6/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.8 - 29.5	<0.655	<2.18	<0.664	<3.02	5.764	0.52	0 U	111	9.22
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	0.831 J	<2.18	<0.664	<3.02	5.916	1.4	1.5	-163.5	7.28
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	0.703 J	<2.18	<0.664	3.71 J	6.72	0.48	0 U	-180	8.06
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.655	<2.18	<0.664	<3.02	7163	0.1	0 U	-210.1	8.14
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.655	<2.18	12.3	<3.02	6.709	2.26	0 U	-67.7	8.09
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.655	<2.18	<0.664	<3.02	11.208	0.39	0 U	42.3	8.67
ZTS-MW171	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.3 - 29.0	<0.655	<2.18	<0.664	8.15 J	6.688	0.71	0 U	273	8.91
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.655	<2.18	<0.664	<3.02	6.683	0.05	1.5	-234.7	9.24
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.655	<2.18	<0.664	3.81 J	7.036	0.3	1	-282.5	9.27
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.655	<2.18	<0.664	<3.02	6804	0	0 U	-435	9.21
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.655	<2.18	<0.664	<3.02	6.241	0.98	0 U	-293.6	9.35
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.655	<2.18	0.826 J	<3.02	10.191	0.64	0 U	-273.1	9.45
ZTS-MW178	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	17.8 - 27.5	<0.655	<2.18	<0.664	<3.02	6.729	0.4	0.5	-580.2	9.52
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.655	<2.18	3.28 J	<3.02	6.449	0.23	0.5	33.3	8.17
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.655	<2.18	2.42 J	<3.02	6.669	1.11	0 U	134.9	8.33
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.655	<2.18	3.37 J	29.1	6997	0.1	0 U	63.3	8.48
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.655	<2.18	2.75 J	<3.02	6.22	1.06	0 U	-28.3	8.51
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.655	<2.18	1.87 J	<3.02	9.872	0.09	0 U	67.7	8.19
ZTS-MW167	9/6/2024	N	PM06	1B	Downgradient	5	Alluvium	23.3 - 33.0	<0.655	<2.18	1.72 J	<3.02	5.852	0.22	0 U	280.4	8.45
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	12	<3.02	6.918	0.23	0.2	38.5	8.26
ZTS-MW172	5/23/2023	FD	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	12.2	<3.02	----	----	----	----	----
ZTS-MW172	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	6.23	4.21 J	6.884	0.41	0 U	34.5	7.67
ZTS-MW172	8/23/2023	FD	PM02	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	5.91	<3.02	----	----	----	----	----
ZTS-MW172	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	4.29 J	<3.02	6882	0.2	0 U	187	8.22
ZTS-MW172	11/30/2023	FD	PM03	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	4.17 J	<3.02	----	----	----	----	----
ZTS-MW172	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	3.99 J	<3.02	6.016	1.18	0 U	-32.5	8.1
ZTS-MW172	2/22/2024	FD	PM04	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	3.84 J	<3.02	----	----	----	----	----
ZTS-MW172	5/21/2024	N	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	6.34	<3.02	11.22	0.13	0 U	78.5	8.48
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	5.98	<3.02	----	----	----	----	----
ZTS-MW172	9/11/2024	N	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	5.33	<3.02	6.86	0.17	0 U	194	8.52
ZTS-MW172	9/11/2024	FD	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	<0.655	<2.18	5.52	<3.02	----	----	----	----	----
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	0.941 J	<2.18	5.38	3.46 J	4.497	0.29	0 U	-58.2	7.29
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	0.851 J	<2.18	3.86 J	7.7 J	7.005	3.37	0 U	-82.1	7.52
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.655	<2.18	2.23 J	<3.02	5270	2.8	0 U	-143.7	7.33
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.655	<2.18	8.19	<3.02	5.356	1.14	0 U	-42.5	7.46

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.655	<2.18	10.1	<3.02	9.601	0.3	0 U	84.7	7.45
ZTS-MW173	9/12/2024	N	PM06	1B	Downgradient	5	UMCf	33.3 - 43.0	<0.655	<2.18	6.67	<3.02	4.894	0.59	0 U	174.7	7.46
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.655	<2.18	12.9	<3.02	6.227	0.25	0.2	21.7	8.34
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.655	<2.18	9.52	<3.02	6.842	0.39	0 U	-32.3	8.25
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.655	<2.18	6.26	<3.02	6942	0.5	0 U	165.8	8.35
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.655	<2.18	3.91 J	<3.02	6.185	1.18	0 U	-52	8.18
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.655	<2.18	3.74 J	<3.02	10.176	2.7	0 U	45.2	8.43
ZTS-MW179	9/10/2024	N	PM06	1B	Downgradient	5	Alluvium	18.3 - 23.0	<0.655	<2.18	3.1 J	<3.02	5.643	0.53	0 U	387.9	8.63
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	9.61 J+	3.32 J	6.583	0.18	0 U	51.1	8.14
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	6.8	<3.02	6.812	0.44	0 U	99	7.97
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	----	----	----	5.681	0.56	----	142.4	8.21
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	<0.655	<2.18	5.73	<3.02	6737	0.1	0 U	152.2	8.11
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	6.08	<3.02	6.202	1.18	0 U	63.7	8.23
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	5.82	<3.02	9.678	0.09	0 U	96.6	8.27
ZTS-MW168	9/6/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	6.73	<3.02	5.772	0.71	0 U	290	8.51
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.655	<2.18	9.17 J+	4.25 J	7.138	0.35	0.2	93.5	7.6
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	1.08 J	<2.18	6.94	10.7 J	6.894	0.36	0 U	16.1	7.75
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	----	----	----	5.686	0.27	----	150.1	8.24
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	<0.655	<2.18	7.56	6.4 J	6691	0	0 U	145.3	8.19
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.655	<2.18	7.98	<3.02	6.278	1.06	0 U	-16.8	8.16
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.655	<2.18	6.71	<3.02	8.6	0.25	0 U	115.7	8.36
ZTS-MW174	9/11/2024	N	PM06	1B	Downgradient	15	Alluvium	19.8 - 29.5	<0.655	<2.18	6.19	<3.02	5.815	0.14	0 U	355.9	8.57
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	0.774 J	<2.18	8.16	<3.02	6.585	0.39	0 U	57.8	7.76
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	9.29	<3.02	7.059	0.39	0 U	61.8	7.98
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	9.01	<3.02	6729	0.1	0 U	147.1	8.22
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	7.5	<3.02	6.335	1.12	0 U	8.3	8.35
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	7.32	<3.02	11.476	0.06	0 U	2.7	8.48
ZTS-MW177	9/10/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	<0.655	<2.18	5.7	<3.02	5.67	0.17	0 U	270.9	8.79
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	22.2	4.21 J	6.314	2.63	0.2	104.1	7.1
ZTS-MW180	5/24/2023	FD	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	20.8	<3.02	----	----	----	----	----
ZTS-MW180	8/24/2023	N	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	24.2	5.27 J	7.011	3.43	0 U	213.3	6.88
ZTS-MW180	8/24/2023	FD	PM02	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	24.5	<3.02	----	----	----	----	----
ZTS-MW180	11/30/2023	N	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	21.2	<3.02	7125	2.1	0 U	195.7	7.11
ZTS-MW180	11/30/2023	FD	PM03	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	21.3	<3.02	----	----	----	----	----
ZTS-MW180	2/22/2024	N	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	21.3	<3.02	6.561	4.3	0 U	70.2	7.04
ZTS-MW180	2/22/2024	FD	PM04	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	22	<3.02	----	----	----	----	----
ZTS-MW180	5/24/2024	N	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	21.3	<3.02	8.602	5.26	0 U	163.5	7.02
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	21.5	<3.02	----	----	----	----	----
ZTS-MW180	9/10/2024	N	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	21.4	<3.02	5.725	4.54	0 U	572.4	7.24
ZTS-MW180	9/10/2024	FD	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	<0.655	<2.18	21.6	<3.02	----	----	----	----	----
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.655	<2.18	10.4	<3.02	6.532	2.2	0.2	87.6	7.59
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.655	<2.18	10.7	4.61 J	7.1	0.41	0 U	76.5	7.6
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.655	<2.18	11.8	<3.02	6987	0.2	0 U	52.7	7.94
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.655	<2.18	9.73	<3.02	6.183	1.14	0 U	25	8.14
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.655	<2.18	8.04	<3.02	9.367	5.93	0 U	120.8	7.95
ZTS-MW148	9/12/2024	N	PM06	1B	Downgradient	35	Alluvium	22.0 - 32.0	<0.655	<2.18	10.3	<3.02	6.621	0.19	0 U	494.5	8.32

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
LVWPS-MW107A	5/23/2023	N	PM01	1B	Downgradient	50	Alluvium	24.8 - 34.5	<0.655	<2.18	7.23	<3.02	7.217	0.49	0.2	66.9	7.8
LVWPS-MW107A	8/24/2023	N	PM02	1B	Downgradient	50	Alluvium	24.8 - 34.5	<0.655	<2.18	8.43	<3.02	7.181	0.52	0 U	150.5	7.88
LVWPS-MW107A	11/30/2023	N	PM03	1B	Downgradient	50	Alluvium	24.8 - 34.5	<0.655	<2.18	6.94	<3.02	6856	0.1	0 U	161.6	8.21
LVWPS-MW107A	2/22/2024	N	PM04	1B	Downgradient	50	Alluvium	24.8 - 34.5	<0.655	<2.18	7.83	<3.02	5.585	5.54	0 U	75	8.1
LVWPS-MW107A	5/28/2024	N	PM05	1B	Downgradient	50	Alluvium	24.8 - 34.5	<0.655	<2.18	5.99	<3.02	6.487	0.23	0 U	67	8.22
LVWPS-MW107A	9/12/2024	N	PM06	1B	Downgradient	50	Alluvium	24.8 - 34.5	<0.655	<2.18	6.69	<3.02	6.751	0.27	0 U	286.2	8.46
LVWPS-MW107B	5/23/2023	N	PM01	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.655	<2.18	<0.664	<3.02	8.326	0.94	0 U	-183.7	7.4
LVWPS-MW107B	8/24/2023	N	PM02	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.655	<2.18	5.72	<3.02	4.333	5.77	0 U	-137.6	7.32
LVWPS-MW107B	12/1/2023	N	PM03	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.655	<2.18	6.49	<3.02	2666	2.4	0 U	54.4	7.64
LVWPS-MW107B	2/23/2024	N	PM04	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.655	<2.18	<0.664	<3.02	6.442	1.46	0 U	-188.7	7.4
LVWPS-MW107B	5/24/2024	N	PM05	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.655	<2.18	<0.664	<3.02	7.865	0.7	0 U	-179.7	7.44
LVWPS-MW107B	9/12/2024	N	PM06	1B	Downgradient	50	UMCf	46.0 - 65.8	<0.655	<2.18	<0.664	<3.02	7.81	0.39	0 U	-263.3	7.51
LVWPS-MW107C	5/23/2023	N	PM01	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.655	<2.18	<0.664	<3.02	65.406	0.37	0 U	-236	7.47
LVWPS-MW107C	8/24/2023	N	PM02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<6.55	<21.8	<6.64	<30.2	66.679	5.95	0.5	-131.4	6.98
LVWPS-MW107C	12/1/2023	N	PM03	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<6.55	<21.8	<6.64	<30.2	63026	0.2	0 U	-220.7	7.36
LVWPS-MW107C	2/23/2024	N	PM04	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<13.1	<43.6	<13.3	<60.4	60.847	1.2	0.5	-160.9	7.49
LVWPS-MW107C	5/28/2024	N	PM05	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<0.655	<2.18	18.8	<3.02	63.053	0.35	0 U	-189.8	7.45
LVWPS-MW107C	9/13/2024	N	PM06	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	<6.55	<21.8	<6.64	<30.2	60.419	0.26	0 U	-274.3	7.65
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	0.892 J	<2.18	19.5	<3.02	5.253	1.18	0 U	171.3	7.38
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.655	<2.18	17.1	<3.02	7.034	0.39	0 U	144.6	7.45
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.655	<2.18	14.6	<3.02	6911	0.5	0 U	179.8	7.77
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.655	<2.18	17.1	<3.02	6.149	0.26	0 U	41	7.73
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.655	<2.18	17.1	<3.02	4.841	0.23	0 U	80.5	7.89
ZTS-MW175	9/12/2024	N	PM06	1B	Downgradient	100	Alluvium	19.8 - 29.5	<0.655	<2.18	15.4	<3.02	6.731	0.3	0 U	104	8.04
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	1.03 J	<2.18	21.7	<3.02	4.807	1.27	0 U	265.1	7.38
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.655	<2.18	20.2	<3.02	7.196	0.43	0 U	120.3	7.32
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.655	<2.18	19.5	<3.02	6.791	1.55	0 U	146.5	7.45
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.655	<2.18	21	<3.02	6.239	0.34	0 U	134.1	7.55
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.655	<2.18	18.8	<3.02	9.701	2.9	0 U	103.6	7.52
ZTS-MW176	9/13/2024	N	PM06	1B	Downgradient	150	Alluvium	19.8 - 29.5	<0.655	<2.18	17.8	7.04 J	6.653	0.24	0 U	161.2	7.81
Test Area 2A																	
Pre-Construction Baseline Results																	
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.655	<2.18	18.4	<3.02	4.917	5.37	0 U	106.5	7.07
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----	----	7.639	3.07	----	105.5	7.06
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	18	<3.02	4.031	3.4	0 U	94.6	6.98
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.655	<2.18	14.7	<3.02	5.205	4.22	0 U	117.7	8.02
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.655	<2.18	12.5	<3.02	4.133	3.25	0 U	76.8	7.05
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.655	<2.18	19.2	<3.02	7.997	2.89	0 U	91.9	7.13
Post-Construction Performance Monitoring Results																	
ZTS-MW137	5/31/2023	N	PM01	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.655	<2.18	18	<3.02	7.054	4.96	0 U	76.1	7.01
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.655	<2.18	20.9	3.6 J	6.633	4.84	0 U	299.7	7.09
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.655	<2.18	20	<3.02	6.965	4.99	0 U	135.7	6.95
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.655	<2.18	20.3	<3.02	6837	5.52	0 U	122.3	7.22
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.655	<2.18	21.6	<3.02	7.035	5.44	0 U	141.1	7.09
ZTS-MW137	9/16/2024	N	PM06	2A	Upgradient	-9	Alluvium	14.0 - 24.0	<0.655	<2.18	19.3	<3.02	7.297	5.12	0 U	187.5	6.32
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	15.2	<3.02	6.733	3.67	0 U	95.4	7.01
ZTS-MW118	5/31/2023	FD	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	15.9	<3.02	----	----	----	----	----
ZTS-MW118	8/24/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	19.1	<3.02	6.614	3.19	0 U	367.4	7.08
ZTS-MW118	8/24/2023	FD	PM02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	0.932 J	<2.18	19.5	<3.02	----	----	----	----	----
ZTS-MW118	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	18.1	<3.02	7.272	3.3	0 U	90.7	6.92
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	18.5	<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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	18.8	<3.02	7091	3.71	0 U	118.4	7.18
ZTS-MW118	2/23/2024	FD	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	18.1	<3.02	----	----	----	----	----
ZTS-MW118	5/24/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	17.5	<3.02	7.138	4.71	0 U	192.2	6.98
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	16.5	<3.02	----	----	----	----	----
ZTS-MW118	9/16/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	17.4	<3.02	7.526	4.24	0 U	188.3	6.26
ZTS-MW118	9/16/2024	FD	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	<0.655	<2.18	16.9	<3.02	----	----	----	----	----
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.655	<2.18	16.9	<3.02	6.859	4.29	0 U	75	6.99
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.655	<2.18	18	<3.02	6.398	4.38	0 U	365.5	7.01
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.655	<2.18	19.6	<3.02	7.017	3.31	0 U	132.7	7.11
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.655	<2.18	18.3	<3.02	6.555	4.7	0 U	71.5	7.03
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.655	<2.18	17.1	<3.02	6.877	4.72	0 U	114.4	7.12
ZTS-MW190	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	14.3 - 24.0	<0.655	<2.18	18.6	<3.02	35.741	4.26	0 U	151.2	7.08
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.655	<2.18	16.9	<3.02	7.466	4.85	0.5	123.9	7.1
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.655	<2.18	17.9	<3.02	6.539	4.14	0 U	72.8	7.14
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.655	<2.18	19.2	9.95 J	6.832	3.6	0 U	76.1	7.11
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.655	<2.18	19.9	<3.02	6.47	6.18	0 U	76.9	7.03
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.655	<2.18	15.6	<3.02	6.971	4.31	0 U	90.9	7.1
ZTS-MW196	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.8 - 23.5	<0.655	<2.18	18.6	<3.02	35.825	3.77	0 U	170.6	7.09
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.655	<2.18	14.6	3.2 J	7.119	4.56	0.5	101.5	7.19
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.655	<2.18	15.7	7.3 J	6.112	4.69	0 U	54.1	7.23
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.655	<2.18	10.6	<3.02	4.958	1.26	0 U	100.8	7.33
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.655	<2.18	9.44	<3.02	4.899	2.65	0 U	64.4	7.2
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.655	<2.18	15.1	<3.02	6.474	4.13	0 U	100.7	7.2
ZTS-MW202	9/16/2024	N	PM06	2A	Upgradient	-3	UMCf	28.8 - 38.5	<0.655	<2.18	15	12.9 J	6.563	3.61	0 U	167.5	6.39
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	1.15 J	<2.18	11.6	<3.02	6.886	4.71	0 U	148.3	7.58
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.655	<2.18	16.8	5.17 J	6.556	4.38	0 U	139.7	7.2
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.655	<2.18	19.3	<3.02	7.121	4.38	0 U	165.2	7.05
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.655	<2.18	18.6	<3.02	6880	4.9	0 U	82.1	7.2
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.655	<2.18	18.9	<3.02	7.09	4.55	0 U	158.8	7.02
ZTS-MW192	9/17/2024	N	PM06	2A	Center of Array	0	Alluvium	14.3 - 24.0	<0.655	<2.18	18.8	<3.02	35.633	4.08	0.5	176.2	7.09
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	0.667 J	<2.18	1.23 J	<3.02	6.105	1.63	0 U	-246	8.47
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.655	<2.18	1.62 J	7.71 J	7.178	3.98	0 U	-100	8.44
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.655	<2.18	4.2 J	<3.02	6.73	1.58	0 U	-116.2	8.04
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.655	<2.18	6.22	<3.02	6543	1.21	0 U	-8.7	7.4
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.655	<2.18	5.83	<3.02	6.8	0.84	0 U	-37.7	7.91
ZTS-MW191	9/18/2024	N	PM06	2A	Downgradient	1	Alluvium	14.8 - 24.5	<0.655	<2.18	6.44	<3.02	12.164	1.06	1.5	124.1	7.91
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.655	<2.18	14.4	<3.02	5.918	3.42	0 U	73.2	7.16
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.655	<2.18	15.2	<3.02	6.624	3.67	0 U	-81.9	7.29
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.655	<2.18	17.3	<3.02	7.055	3.29	0 U	139.2	7.02
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.655	<2.18	17.8	<3.02	6586	4.34	0 U	96.2	7.13
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.655	<2.18	17	<3.02	7.148	3.25	0 U	129.2	7.08
ZTS-MW195	9/19/2024	N	PM06	2A	Downgradient	1	Alluvium	14.3 - 24.0	<0.655	<2.18	17.3	<3.02	124.483	1.55	0 U	190.2	7.01
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.655	<2.18	17.6	3.79 J	7.03	4.93	0 U	108.5	7.18
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	0.802 J	<2.18	18	5.22 J	6.578	5.09	0 U	386.4	7.02
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.655	<2.18	20.3	<3.02	7.104	5.39	0 U	180	7.08
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.655	<2.18	18.9	<3.02	6553	6.05	0 U	92.4	7.2
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.655	<2.18	18.5	<3.02	7.077	6.17	0 U	150.6	7.13
ZTS-MW138	9/17/2024	N	PM06	2A	Downgradient	5	Alluvium	14.0 - 24.0	<0.655	<2.18	18.3	<3.02	12.012	5.37	0 U	203.3	7.16
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.655	<2.18	16	6.02 J	7.002	1.14	0 U	36.4	7.12
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.655	<2.18	15.5	<3.02	6.712	2.64	0 U	335.1	6.99
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.655	<2.18	16.2	<3.02	6.829	2.75	0 U	234.8	6.98

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Table 2
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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.655	<2.18	18.1	<3.02	6599	3.18	0 U	86.4	7.08
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.655	<2.18	18.1	<3.02	7.092	2.03	0 U	150.7	7.05
ZTS-MW139	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.0 - 23.0	<0.655	<2.18	18	<3.02	12.421	2.5	0 U	180.1	6.99
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	0.66 J	<2.18	15.4	<3.02	7.165	1.54	0 U	26.4	7.01
ZTS-MW193	5/25/2023	FD	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	15.9	<3.02	----	----	----	----	----
ZTS-MW193	8/22/2023	N	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	14.9	<3.02	6.559	2.56	0 U	339.9	7.03
ZTS-MW193	8/22/2023	FD	PM02	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	15.6	<3.02	----	----	----	----	----
ZTS-MW193	11/30/2023	N	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	16.9	<3.02	7.096	4.78	0 U	218.9	6.99
ZTS-MW193	11/30/2023	FD	PM03	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	15.6	<3.02	----	----	----	----	----
ZTS-MW193	2/22/2024	N	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	18.4	<3.02	6918	4.6	0 U	136.3	7.19
ZTS-MW193	2/22/2024	FD	PM04	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	18.6	<3.02	----	----	----	----	----
ZTS-MW193	5/22/2024	N	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	16.9	<3.02	6.991	2.24	0 U	112.8	7
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	17.7	<3.02	----	----	----	----	----
ZTS-MW193	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	18.3	<3.02	12.482	2.21	0 U	158	6.99
ZTS-MW193	9/18/2024	FD	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	<0.655	<2.18	17.3	<3.02	----	----	----	----	----
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.655	<2.18	15.5	3.85 J	6.503	0.85	0 U	19.5	6.98
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.655	<2.18	17.7	21.3 J	6.047	1.27	0 U	428	7.01
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	----	----	----	5.285	0.69	----	149.3	7.36
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	<0.655	<2.18	13.7	<3.02	5.538	1.33	0 U	165.6	7.12
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.655	<2.18	10.9	<3.02	4646	1.23	0 U	94.6	7.42
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.655	<2.18	18.2	<3.02	6.432	1.85	0 U	188.4	6.98
ZTS-MW203	9/17/2024	N	PM06	2A	Downgradient	5	UMCf	28.3 - 38.0	<0.655	<2.18	17.4	<3.02	11.07	0.5	0 U	168.1	7.16
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.655	<2.18	17.7	<3.02	6.727	3.82	0 U	71.3	6.97
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.655	<2.18	16.4	<3.02	6.483	4.64	0 U	367.3	7.01
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.655	<2.18	18.7	<3.02	7.008	5.14	0 U	209.4	7.02
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.655	<2.18	19.1	<3.02	6888	5.64	0 U	161	7.18
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.655	<2.18	18.4	<3.02	6.928	5.09	0 U	139.4	7.03
ZTS-MW194	9/18/2024	N	PM06	2A	Downgradient	15	Alluvium	17.8 - 22.5	<0.655	<2.18	18.4	<3.02	12.363	4.62	0 U	174.7	7.03
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.655	<2.18	15.3	<3.02	6.438	3.92	0 U	81.7	6.99
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.655	<2.18	16.2	<3.02	6.552	4	0 U	303.9	7.04
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.655	<2.18	17.1	<3.02	6.737	5.74	0 U	275.5	6.92
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.655	<2.18	18.9	<3.02	6893	5.73	0 U	134.1	7.23
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.655	<2.18	18	<3.02	6.94	5.53	0 U	145	7.05
ZTS-MW197	9/17/2024	N	PM06	2A	Downgradient	55	Alluvium	12.8 - 22.5	<0.655	<2.18	18.6	<3.02	6.745	4.53	0 U	64.6	7.05
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0.847 J	<2.18	17.7	<3.02	6.666	4.65	0 U	91.2	7.07
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.655	<2.18	21.9	<3.02	6.159	3.03	0 U	336.5	7.12
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.655	<2.18	18.8	<3.02	6.75	4.54	0 U	252.7	7.02
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.655	<2.18	19	<3.02	7024	0.82	0 U	109.9	7.26
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.655	<2.18	19	<3.02	7.017	5.51	0 U	140.2	7.01
ZTS-MW113	9/19/2024	N	PM06	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	<0.655	<2.18	23.6	<3.02	124.393	1.28	0 U	163.2	7.03
Test Area 2B																	
Pre-Construction Baseline Results																	
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.655	<2.18	23.8	<3.02	4.71	1.35	0 U	19.7	7.25
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	----	----	----	----	5.788	2.29	----	88.4	7.3
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.655	<2.18	<0.664	<3.02	2.013	1.7	0 U	-116.3	7.43
ZTS-MW117	10/19/2022	FD	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.655	<2.18	<0.664	<3.02	----	----	----	----	----
ZTS-MW134	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.655	<2.18	16.3	162	3.823	4.84	0 U	136	7.18
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.655	<2.18	24.9	39.8	4.194	1.41	0 U	18.2	7.31
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	3.095	1.23	0 U	-128.5	7.4
Post-Construction Performance Monitoring Results																	

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	7.29	<2.18	24.8	19.3 J	4.27	1.18	0 U	79.3	7.36
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.655	<2.18	24.6	<3.02	6.904	0.53	0 U	-17	7.28
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.655	<2.18	26	<3.02	7.645	1.69	0 U	6.6	7.18
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.655	<2.18	26.4	<3.02	7873	0.4	0 U	-14.3	7.37
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.655	<2.18	23.2	<3.02	8.061	0.33	0 U	-2.1	7.24
ZTS-MW133	9/17/2024	N	PM06	2B	Upgradient	-9	UMCf	54.0 - 69.0	<0.655	<2.18	24.9	<3.02	6.813	0.36	0 U	45.5	7.41
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	0.844 J	<2.18	<0.664	3.16 J	4.048	2.35	0.2	-129.2	7.49
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.655	<2.18	0.989 J	4.87 J	5.283	0.88	0 U	-149.5	6.18
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	2.11	<2.18	5.8	40.9	5.959	0.32	0 U	-168.5	7.39
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.655	<2.18	<0.664	<3.02	5.362	0.42	0.5	-168.2	7.25
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.655	<2.18	<0.664	<3.02	6.323	0.69	0 U	-170.6	7.38
ZTS-MW117	9/17/2024	N	PM06	2B	Upgradient	-2	UMCf	40.5 - 55.5	<0.655	<2.18	<0.664	<3.02	5.864	0.36	0 U	-209.7	7.45
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	0.869 J	<2.18	17.5	8.21 J	8.134	4	0 U	112	7.27
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.655	<2.18	19.4	7.76 J	6.522	4.13	0 U	175.1	6.1
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.655	<2.18	17.5	<3.02	6.205	2.13	0 U	-0.8	7.12
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.655	<2.18	15.2	<3.02	5.434	0.76	0 U	44	7.31
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.655	<2.18	18.6	5.49 J	6.355	3.99	0 U	142.6	7.12
ZTS-MW134	9/19/2024	N	PM06	2B	Upgradient	-2	UMCf	26.0 - 36.0	<0.655	<2.18	16.9	<3.02	121.338	0.71	0 U	114.1	7.02
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	1.05 J	<2.18	4.53 J	3.27 J	6.361	9.99	0 U	-42.4	7.72
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.655	<2.18	5.63	8.68 J	5.124	1.55	0 U	53.7	70
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.655	<2.18	3.97 J	<3.02	6.544	2.53	0 U	-109.5	7.29
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.655	<2.18	3.32 J	<3.02	5.8	0.32	0 U	-47.2	6.96
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.655	<2.18	3.64 J	1,050	6.461	0.44	0 U	-130.9	7.56
ZTS-MW198	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	26.1 - 46.0	<0.655	<2.18	4.22 J	<3.02	7.826	0.18	0 U	82.2	7.68
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	0.957 J	<2.18	<0.664	<3.02	7.098	5.5	0 U	-224.7	8.46
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	<0.664	<3.02	----	----	----	----	----
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	<0.664	7.39 J	0.058	8.08	0 U	-8.5	6.79
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	<0.664	<3.02	13.345	0.23	0 U	-271.7	7.55
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	<0.664	<3.02	6.067	0.13	3	-167.8	9.03
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	<6.55	<21.8	<6.64	<30.2	7.202	0.39	0 U	-148.6	9.22
ZTS-MW200	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	<0.664	<3.02	8.311	0.1	0 U	-344.9	9.73
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.655	<2.18	2.17 J	8.27 J	6.689	1.43	0.2	-54.3	7.32
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	0.766 J	<2.18	6.67	3.19 J	5.686	0.91	0 U	143.4	7.41
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.655	<2.18	8.86	<3.02	13.359	0.29	0 U	-126.2	7.3
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.655	<2.18	7.97	<3.02	5.727	0.35	0 U	23.7	7.09
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.655	<2.18	10	<3.02	6.627	0.31	0 U	190.8	7.18
ZTS-MW201	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	27.1 - 47.0	<0.655	<2.18	19.1	4.08 J	8.389	0.32	0 U	352.3	7.39
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	15	4.15 J	8.368	0.44	0.2	-161.4	7.25
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	18.4	3.03 J	0.05	7.45	0 U	122.5	7.8
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	23.9	<3.02	15.213	0.25	0 U	-85.4	7.24
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	23	<3.02	6.555	0.38	0 U	-10.3	7.23
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	23.8	<3.02	7.07	0.22	0 U	7	7.24
ZTS-MW206	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	<0.655	<2.18	23.4	<3.02	8.246	0.35	0 U	363.3	7.38
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	0.817 J	<2.18	21.6	<3.02	7.899	5.73	0 U	-48.6	7.26
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.655	<2.18	22.8	<3.02	6.159	0.94	0 U	85.9	7.29
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.655	<2.18	27.2	<3.02	15.341	0.18	0 U	-161	7.11
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.655	<2.18	28.4	<3.02	6.636	0.19	0 U	-33.6	7.18
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	<6.55	<21.8	28.4 J	<30.2	7.484	0.41	0 U	42.5	7.41
ZTS-MW199	9/19/2024	N	PM06	2B	Downgradient	5	UMCf	50.1 - 65.0	<0.655	<2.18	27.1	<3.02	144.059	0.03	0 U	-9	7.18
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	4.77 J	8.01 J	5.178	2.32	0 U	-69.2	7.45
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	5.16	7.63 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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	1.74 J	<3.02	3.904	1.11	0 U	45.8	7.29
ZTS-MW207	8/23/2023	FD	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	1.93 J	<3.02	----	----	----	----	----
ZTS-MW207	11/29/2023	N	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	1.58 J	<3.02	4.53	0.25	0 U	-80.8	7.24
ZTS-MW207	11/29/2023	FD	PM03	2B	Downgradient	5	UMCf	26.1 - 46.0	<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	<0.655	<2.18	1.46 J	<3.02	4.677	0.61	0 U	69	7.24
ZTS-MW207	2/22/2024	FD	PM04	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	1.55 J	<3.02	----	----	----	----	----
ZTS-MW207	5/22/2024	N	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	1.36 J	3.36 J	5.348	0.5	0 U	172.1	7.21
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	1.26 J	3.07 J	----	----	----	----	----
ZTS-MW207	9/17/2024	N	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	2.98 J	<3.02	7.268	5.96	0 U	200	7.47
ZTS-MW207	9/17/2024	FD	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	<0.655	<2.18	3 J	<3.02	----	----	----	----	----
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	0.982 J	<2.18	25.9	<3.02	7.334	0.48	0 U	-95.1	7.34
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.655	<2.18	28.6	<3.02	7.108	0.78	0 U	108.9	6.11
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.655	<2.18	27.3	9.41 J	7.452	0.22	0 U	109.5	7.21
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.655	<2.18	28.9	<3.02	7.105	0.18	0 U	-6.6	7.21
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.655	<2.18	26.3	<3.02	7.458	0.44	0 U	43.4	7.21
ZTS-MW135	9/17/2024	N	PM06	2B	Downgradient	7	UMCf	54.0 - 69.0	<0.655	<2.18	28.8	<3.02	9.589	0.24	0 U	216.2	7.38
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	3.703	1.01	0.5	-139	7.58
ZTS-MW136	5/26/2023	FD	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	----	----	----	----	----
ZTS-MW136	8/25/2023	N	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	0.034	7.83	0 U	14.3	7.49
ZTS-MW136	8/25/2023	FD	PM02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	----	----	----	----	----
ZTS-MW136	11/29/2023	N	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	3.95	0.19	0 U	-159.8	7.36
ZTS-MW136	11/29/2023	FD	PM03	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	----	----	----	----	----
ZTS-MW136	2/22/2024	N	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	1.12 J	31.2 J+	3.848	0.19	0 U	-188.5	7.34
ZTS-MW136	2/22/2024	FD	PM04	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<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	<0.655	<2.18	0.935 J	<3.02	4.301	0.38	0 U	-188.5	7.34
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	0.914 J	<3.02	----	----	----	----	----
ZTS-MW136	9/12/2024	N	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	4.215	0.02	0 U	-200.2	7.5
ZTS-MW136	9/12/2024	FD	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	<0.655	<2.18	<0.664	<3.02	----	----	----	----	----
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	0.75 J	<2.18	14.4	6.16 J	6.576	4.63	0 U	103.8	7.33
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.655	<2.18	17.8	3.9 J	5.642	2.93	0 U	267.9	7.38
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.655	<2.18	16	<3.02	12.933	1.61	0 U	-3	7.17
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.655	<2.18	11.1	<3.02	5.378	1.72	0 U	77.2	7.23
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.655	<2.18	14	16.8 J	6.033	2.27	0 U	181.5	7.2
ZTS-MW208	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	26.1 - 46.0	<0.655	<2.18	12.7	<3.02	10.02	0.67	0 U	243.2	7.25
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.655	<2.18	23.9	<3.02	8.446	0.79	0 U	90.4	7.38
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.655	<2.18	28.7	6.68 J	6.601	0.83	0 U	247.1	7.37
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.655	<2.18	29	<3.02	7.22	0.28	0 U	2	7.21
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.655	<2.18	29.2	<3.02	7.171	0.19	0 U	66.4	7.2
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	<0.655	<2.18	27	<3.02	7.676	0.29	0 U	189.1	7.18
ZTS-MW209	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	50.6 - 65.5	<3.28	<10.9	28.7	<15.1	13.324	0.32	0 U	259.3	7.29
Test Area 2C																	
Pre-Construction Baseline Results																	
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	19.9	<3.02	4.139	4.97	0 U	112.3	7.08
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	----	----	----	----	7.085	3.05	----	115.6	7.03
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.655	<2.18	20.1	<3.02	6.421	4.57	0 U	164.2	7.04
ZTS-MW119	10/19/2022	FD	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.655	<2.18	19.7	<3.02	----	----	----	----	----
ZTS-MW141	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.655	<2.18	18.4	<3.02	8.367	3.42	0 U	98.6	7.1
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.655	<2.18	22.2	<3.02	4.16	4.54	0 U	111.6	7.06
LVWPS-MW102A	10/21/2022	N	BL02	2C	Downgradient	30	UMCf	47.0 - 66.6	<0.655	<2.18	27.5	<3.02	11.664	0.55	0 U	-35	7.26
LVWPS-MW102B	10/21/2022	N	BL02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<65.5	<2.18	<0.664	<3.02	49.317	0.48	0 U	-240.7	7.38
Post-Construction Performance Monitoring Results																	

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	0.726 J	<2.18	19.9	<3.02	3.4	5.48	0 U	198.2	6.91
ZTS-MW140	5/25/2023	FD	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	19.6	<3.02	----	----	----	----	----
ZTS-MW140	8/29/2023	N	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	19.8	<3.02	6.113	5.57	0 U	88.8	7.14
ZTS-MW140	8/29/2023	FD	PM02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	19.6	<3.02	----	----	----	----	----
ZTS-MW140	12/4/2023	N	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	22.1	5.55 J	7.244	4.78	0 U	184	7.13
ZTS-MW140	12/4/2023	FD	PM03	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	21.8	4.92 J	----	----	----	----	----
ZTS-MW140	2/22/2024	N	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	19.9	<3.02	6.57	6.38	0 U	93.3	7.03
ZTS-MW140	2/22/2024	FD	PM04	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	19.5	<3.02	----	----	----	----	----
ZTS-MW140	5/24/2024	N	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	19.8	<3.02	6.785	5.23	0 U	103.1	7.36
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	20	<3.02	----	----	----	----	----
ZTS-MW140	9/11/2024	N	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	20	<3.02	216.804	-8.9	0 U	470.4	7
ZTS-MW140	9/11/2024	FD	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	<0.655	<2.18	19.7	3.36 J	----	----	----	----	----
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.655	<2.18	19.6	4.28 J	5.041	5.51	0 U	171.1	6.45
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.655	<2.18	20	<3.02	6.166	5.36	0 U	52.8	7.11
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.655	<2.18	21.8	5.35 J	7.193	4.99	0 U	199.6	7.09
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.655	<2.18	19.9	<3.02	6.521	6.6	0 U	99.9	7.07
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.655	<2.18	20.1	<3.02	6.872	5.24	0 U	87.6	7.36
ZTS-MW119	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	15.0 - 25.0	<0.655	<2.18	19.7	<3.02	217.41	-7.72	0 U	549.7	7.02
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	17.8	<3.02	4.69	4.79	0 U	171.3	6.9
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	18.4	<3.02	7.204	4.54	0 U	127.1	7.13
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	21.5	<3.02	7.776	3.65	0 U	110.8	7.04
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	18.9	<3.02	6.172	6.02	0 U	69.9	7.03
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	19.1	<3.02	6.855	5.17	0 U	120.8	7.32
ZTS-MW181	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	18.3	<3.02	219.572	-9.35	0 U	458.7	7.03
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0.732 J	<2.18	20.1	<3.02	6.728	5.46	0 U	85.9	7.28
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	20.1	<3.02	6.991	5.64	0 U	143.6	7.12
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	20	4.17 J	7.57	4.92	0 U	95	7.06
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	21.7	<3.02	0.054	8.95	0 U	253.4	7.77
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	20.9	<3.02	6.735	5.78	0 U	455.9	7.32
ZTS-MW188	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	<0.655	<2.18	20.4	<3.02	215.537	-7.12	0 U	505	7.01
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.655	<2.18	7.13	<3.02	2.65	1.3	0 U	-14.8	7.24
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.655	<2.18	6.71	<3.02	4.587	1.49	0 U	34.3	7.22
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.655	<2.18	6.07	<3.02	3.951	0.99	0 U	-10.3	7.39
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.655	<2.18	4.42 J	<3.02	3.976	1.98	0 U	42.3	7.31
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.655	<2.18	4.26 J	<3.02	3.998	1.06	0 U	10	7.6
ZTS-MW204	9/11/2024	N	PM06	2C	Upgradient	-3	UMCf	30.3 - 40.0	<0.655	<2.18	3.05 J	4.55 J	97.756	-63.6	0 U	471.4	7.36
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	0.881 J	<2.18	9.68	12.6 J	5.733	2.29	0 U	103.9	7.11
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.655	<2.18	9.81	<3.02	6.96	2.36	0 U	12.1	7.24
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.655	<2.18	14.2	<3.02	7.293	1.56	----	459.3	7.2
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
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.655	<2.18	12.4	3.08 J	6.936	2.36	0.5	19.3	7.1
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.655	<2.18	14.5	<3.02	6.856	3.28	0 U	507.9	7.06
ZTS-MW182	9/6/2024	N	PM06	2C	Center of Array	0	Alluvium	17.6 - 27.3	<0.655	<2.18	13	<3.02	6.895	2.91	0 U	163.3	7.45
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	0.799 J	<2.18	12.4	15 J	6.083	2.17	0 U	154.5	6.98
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	<0.655	<2.18	14.1	<3.02	7.209	4.1	0 U	111.9	7.17
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	<0.655	<2.18	18.7	<3.02	8.325	2.47	0 U	500.7	7.13
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	27.7	16 J	23.5	5.79 J	0.084	8.41	0.5	160.9	7.23
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	<0.655	<2.18	16.9	<3.02	6.879	3.72	0 U	518.2	7.09
ZTS-MW183	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	17.3 - 27.0	<0.655	<2.18	17.3	<3.02	6.921	3.61	0 U	433.2	7.42
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.655	<2.18	14.7	6.17 J	5.845	4.41	0 U	170.6	7.08
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.655	<2.18	18.2	<3.02	6.9	3.31	0 U	136.8	7.08

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.655	<2.18	16.4	5.5 J	8.812	3.69	0 U	484.2	7.08
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.655	<2.18	17.1	<3.02	6.784	3.18	0 U	165.5	7.15
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.655	<2.18	16.8	<3.02	6.661	2.82	0 U	393	7.23
ZTS-MW187	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	15.3 - 25.0	<0.655	<2.18	16	<3.02	6.772	3.07	0 U	406.5	7.42
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.655	<2.18	18.4	<3.02	0.064	7.42	0 U	177.3	7.98
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.655	<2.18	19.7	3.27 J	7.071	4.86	0 U	120.4	7.08
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.655	<2.18	19.2	<3.02	9.12	4.63	0 U	368.9	7.07
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.655	<2.18	18.5	<3.02	7.617	5.12	0 U	79.1	7.18
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.655	<2.18	17.1	3.19 J	7.672	5.4	0 U	454.7	7.31
ZTS-MW141	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	14.5 - 24.5	<0.655	<2.18	18.4	<3.02	292.385	0.87	0 U	469.7	7.22
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	0.679 J	<2.18	16.4	<3.02	6.48	2.78	0 U	115	7.09
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.655	<2.18	20.7	9.45 J	6.953	3.05	0 U	133.3	7.15
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.655	<2.18	18.1	<3.02	8.581	2.14	0 U	473.8	7.17
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.655	<2.18	19.6	<3.02	7.666	4.5	0 U	108.6	7.17
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.655	<2.18	20.2	5.3 J	6.833	3.65	0 U	513.3	7.05
ZTS-MW142	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	16.0 - 26.0	<0.655	<2.18	18.4	<3.02	294.643	0.38	0 U	545.1	7.18
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.655	<2.18	17.1	4.74 J	5.921	2.7	0 U	161.6	6.9
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.655	<2.18	15.9	<3.02	7.23	2.91	0 U	92.6	7.15
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.655	<2.18	21	<3.02	8.408	2.21	0 U	486.8	7.12
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.655	<2.18	18.4	<3.02	6.871	5.06	0 U	174.9	7.18
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.655	<2.18	18.4	<3.02	6.923	4.65	0 U	523.3	7.14
ZTS-MW184	9/6/2024	N	PM06	2C	Downgradient	5	Alluvium	16.3 - 26.0	<0.655	<2.18	18	<3.02	6.898	3.32	0 U	417.2	7.39
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.655	<2.18	2.65 J	5.8 J	2.703	2.04	0 U	112.4	7.31
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.655	<2.18	3.39 J	3.04 J	2.826	0.27	0 U	-111.6	7.48
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.655	<2.18	<0.664	<3.02	3.474	0.18	0 U	-20.9	7.48
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.655	<2.18	4.1 J	<3.02	3.843	0.16	0 U	-40.5	7.53
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.655	<2.18	1.5 J	<3.02	2.78	0.8	0 U	420.7	7.51
ZTS-MW205	9/9/2024	N	PM06	2C	Downgradient	5	UMCf	30.3 - 40.0	<0.655	<2.18	1.56 J	<3.02	122.814	0.08	0 U	490.7	7.6
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	0.718 J	<2.18	17.3	3.45 J	6.051	5.64	0 U	172.6	7.21
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.655	<2.18	20.2	5.61 J	6.967	5.48	0 U	139.9	7.16
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.655	<2.18	17.7	<3.02	8.65	4.95	0 U	466.9	7.19
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.655	<2.18	19.7	<3.02	7.388	6.31	0 U	128.3	7.21
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.655	<2.18	19.4	<3.02	6.793	6.06	0 U	523.1	7.19
ZTS-MW185	9/10/2024	N	PM06	2C	Downgradient	15	Alluvium	15.3 - 25.0	<0.655	<2.18	17.4	<3.02	187.537	1.73	0 U	320.2	6.95
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.655	<2.18	16.4	<3.02	6.186	5.54	0 U	190.7	7.23
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.655	<2.18	19.3	3.11 J	7.107	5.23	0 U	119.1	7.15
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.655	<2.18	16.9	<3.02	8.738	4.29	0 U	485.6	7.16
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.655	<2.18	19.7	<3.02	0.069	8.93	0 U	242.1	7.57
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.655	<2.18	18.2	<3.02	6.836	5.65	0 U	507.7	7.19
ZTS-MW186	9/10/2024	N	PM06	2C	Downgradient	25	Alluvium	15.3 - 25.0	<0.655	<2.18	18.1	<3.02	186.375	2.22	0 U	387.1	6.93
LVWPS-MW102A	5/30/2023	N	PM01	2C	Downgradient	30	UMCf	47.0 - 66.6	<0.655	<2.18	27.2	<3.02	12.755	0.65	0 U	24.9	7.1
LVWPS-MW102A	8/23/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	<0.655	<2.18	29.3	<3.02	11.692	0.42	0 U	262.9	7.2
LVWPS-MW102A	10/11/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	9.654	0.3	----	111.2	7.46
LVWPS-MW102A	10/11/2023	FS	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----	----	----	----	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	2C	Downgradient	30	UMCf	47.0 - 66.6	<0.655	<2.18	27	<3.02	11.474	1.2	0 U	160	7.08
LVWPS-MW102A	2/27/2024	N	PM04	2C	Downgradient	30	UMCf	47.0 - 66.6	<0.655	<2.18	27.6	5.42 J	13.23	0.45	0 U	81.2	7.21
LVWPS-MW102A	5/23/2024	N	PM05	2C	Downgradient	30	UMCf	47.0 - 66.6	<0.655	<2.18	27.9	<3.02	12.922	0.41	0 U	120.8	7.14
LVWPS-MW102A	9/17/2024	N	PM06	2C	Downgradient	30	UMCf	47.0 - 66.6	<0.655	<2.18	26.8	<3.02	12.24	0.35	0 U	-33.3	7.2
LVWPS-MW102B	5/26/2023	N	PM01	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<32.8	<2.18	<0.664	<3.02	57.269	0.51	0 U	-179.9	7.35
LVWPS-MW102B	8/23/2023	N	PM02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<6.55	<21.8	<6.64	<30.2	52.223	0.3	0 U	-150	7.38
LVWPS-MW102B	12/1/2023	N	PM03	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<6.55	<21.8	<6.64	<30.2	54.624	1.03	0 U	-217.3	7.34

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
									Tin	Titanium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						feet			µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
LVWPS-MW102B	2/27/2024	N	PM04	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<6.55	<2.18	<0.664	<3.02	54.219	0.37	0 U	-208.2	7.39
LVWPS-MW102B	5/23/2024	N	PM05	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<0.655	<2.18	0.76 J	<3.02	57.083	0.54	0 U	-172.5	7.25
LVWPS-MW102B	9/17/2024	N	PM06	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	<6.55	<21.8	<6.64	<30.2	52.118	0.13	0 U	-206.8	7.35
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.655	<2.18	17	3.65 J	6.172	3.91	0 U	140.5	7.2
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.655	<2.18	18.2	3.94 J	7.064	4.98	0 U	130.6	7.1
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.655	<2.18	18.9	<3.02	8.395	2.7	0 U	497.3	7.11
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.655	<2.18	19	<3.02	9.343	4.48	0 U	173.9	7.17
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.655	<2.18	17.8	<3.02	6.808	4.78	0 U	507.3	7.19
ZTS-MW189	9/10/2024	N	PM06	2C	Downgradient	55	Alluvium	12.8 - 23.0	<0.655	<2.18	17.7	<3.02	184.563	1.85	0 U	354.7	6.95
General Vicinity																	
Pre-Construction Baseline Results																	
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	----	----	----	----	6.685	0.36	----	-0.2	7.34
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	<0.655	<2.18	15.4	<3.02	7.049	0.46	0 U	-17.7	7.35
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	----	----	----	----	7.153	0.53	----	85.2	7.34
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	<0.655	<2.18	11	<3.02	7.65	0.65	0 U	40.8	7.22
Post-Construction Performance Monitoring Results																	
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	<0.655	<2.18	15.9	4.24 J	3.951	1.13	0 U	68.3	6.82
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	<0.655	<2.18	15.5	11.1 J	5.763	2.05	0 U	39.1	7.33
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	<0.655	<2.18	16.4	<3.02	6.326	0.09	0 U	127.2	7.31
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	<0.655	<2.18	16.4	<3.02	7.149	0.44	0 U	-37.6	7.28
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	<0.655	<2.18	15.1	<3.02	6.935	0.43	0 U	53	7.27
ZTS-MW116	9/12/2024	N	PM06	NA	NA	NA	UMCf	33.0 - 48.0	<0.655	<2.18	16.3	<3.02	5.954	0.18	0 U	106.1	7.45
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	<0.655	<2.18	16.4	7.14 J	4.951	1.18	0 U	47.5	6.58
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	<0.655	<2.18	17.7	<3.02	5.846	0.95	0 U	24.2	7.2
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	<0.655	<2.18	18	<3.02	6.634	1.63	0 U	151.7	7.22
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	<0.655	<2.18	16.2	<3.02	5.345	0.37	0 U	20.9	7.24
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	<0.655	4.83 J	19.8	<3.02	6.39	0.8	0 U	96.4	7.25
ZTS-MW128	9/12/2024	N	PM06	NA	NA	NA	UMCf	42.0 - 52.0	<0.655	<2.18	19	<3.02	5.762	1	0 U	139.2	7.31

Notes:
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 the sample.
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 may or may not be present in the sample.
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
< The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
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
PM05 Hydrogen samples cancelled with lab due to instrument failure.

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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
									Sulfide	Temperature	Turbidity
						feet			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	0 U	24.8	7.2
ZTS-MW124	8/31/2022	N	BL01	1A	Upgradient	-8	Alluvium	24.0 - 34.0	----	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	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	----	31.2	7.5
ZTS-MW125	10/24/2022	N	BL02	1A	Upgradient	-8	UMCf	40.0 - 50.0	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	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	0 U	24.1	7.5
ZTS-MW143	8/29/2023	N	PM02	1A	Upgradient	-50	Alluvium	23.0 - 33.0	0 U	26.7	11.2
ZTS-MW143	12/6/2023	N	PM03	1A	Upgradient	-50	Alluvium	23.0 - 33.0	0 U	23.5	6.2
ZTS-MW143	2/21/2024	N	PM04	1A	Upgradient	-50	Alluvium	23.0 - 33.0	0 U	23.2	-99 E
ZTS-MW143	5/20/2024	N	PM05	1A	Upgradient	-50	Alluvium	23.0 - 33.0	0 U	26.1	174.6
ZTS-MW143	9/13/2024	N	PM06	1A	Upgradient	-50	Alluvium	23.0 - 33.0	0 U	26.1	191.8
ZTS-MW124R	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.5 - 34.0	0 U	25.8	11.1
ZTS-MW124R	8/29/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.5 - 34.0	0 U	25.4	14.6
ZTS-MW124R	12/5/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.5 - 34.0	----	23.9	28.4
ZTS-MW124R	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.5 - 34.0	0 U	23.9	45.2
ZTS-MW124R	5/20/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.5 - 34.0	0 U	26.1	9.1
ZTS-MW124R	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.5 - 34.0	0 U	25.2	22.5
ZTS-MW125	5/25/2023	N	PM01	1A	Upgradient	-8	UMCf	40.0 - 50.0	0.1	30.5	7.2
ZTS-MW125	8/30/2023	N	PM02	1A	Upgradient	-8	UMCf	40.0 - 50.0	0 U	25.1	7.3
ZTS-MW125	12/1/2023	N	PM03	1A	Upgradient	-8	UMCf	40.0 - 50.0	0 U	23.1	3.4
ZTS-MW125	2/26/2024	N	PM04	1A	Upgradient	-8	UMCf	40.0 - 50.0	0 U	23.8	4.8
ZTS-MW125	5/24/2024	N	PM05	1A	Upgradient	-8	UMCf	40.0 - 50.0	0 U	29.4	3.1
ZTS-MW125	9/16/2024	N	PM06	1A	Upgradient	-8	UMCf	40.0 - 50.0	0 U	26.4	0.7
ZTS-MW153	5/26/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	24.1	57.2
ZTS-MW153	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	24.8	153
ZTS-MW153	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	23.6	79.4
ZTS-MW153	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	23.6	13
ZTS-MW153	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	24.6	18.2
ZTS-MW153	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	25.9	43.7
ZTS-MW163	5/25/2023	N	PM01	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	25.4	5.4
ZTS-MW163	8/31/2023	N	PM02	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	25.9	14.8
ZTS-MW163	12/1/2023	N	PM03	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	23.5	1.6
ZTS-MW163	2/27/2024	N	PM04	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	23.3	2.7
ZTS-MW163	5/28/2024	N	PM05	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	25.4	2.5
ZTS-MW163	9/16/2024	N	PM06	1A	Upgradient	-8	Alluvium	24.3 - 34.0	0 U	25.1	0.8
ZTS-MW150	5/22/2023	N	PM01	1A	Center of Trench	0	Alluvium	24.3 - 34.0	0 U	25.7	73.9
ZTS-MW150	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	24.3 - 34.0	0 U	24.8	91.7
ZTS-MW150	11/27/2023	N	PM03	1A	Center of Trench	0	Alluvium	24.3 - 34.0	0 U	23.2	9.1
ZTS-MW150	2/19/2024	N	PM04	1A	Center of Trench	0	Alluvium	24.3 - 34.0	0 U	24.5	15.7
ZTS-MW150	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	24.3 - 34.0	0 U	26	293.9
ZTS-MW150	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	24.3 - 34.0	0 U	28	22.8
ZTS-MW154	5/24/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	0 U	26.3	110.5
ZTS-MW154	8/21/2023	N	PM02	1A	Center of Trench	0	Alluvium	22.3 - 32.0	0 U	25.8	75.9
ZTS-MW154	11/28/2023	N	PM03	1A	Center of Trench	0	Alluvium	22.3 - 32.0	0 U	23.3	24.5

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW154	2/20/2024	N	PM04	1A	Center of Trench	0	Alluvium	22.3 - 32.0	0 U	22.1	26.5
ZTS-MW154	5/20/2024	N	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	0 U	26.8	261.3
ZTS-MW154	9/5/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	0 U	29.1	87.3
ZTS-MW164	5/23/2023	N	PM01	1A	Center of Trench	0	Alluvium	22.3 - 32.0	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	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	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	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	0 U	26	88
ZTS-MW164	5/20/2024	FD	PM05	1A	Center of Trench	0	Alluvium	22.3 - 32.0	----	----	----
ZTS-MW164	9/6/2024	N	PM06	1A	Center of Trench	0	Alluvium	22.3 - 32.0	0 U	29	48.9
ZTS-MW164	9/6/2024	FD	PM06	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	0 U	24	16.7
ZTS-MW151	8/21/2023	N	PM02	1A	Downgradient	5	Alluvium	24.3 - 34.0	0 U	25.9	75.6
ZTS-MW151	11/28/2023	N	PM03	1A	Downgradient	5	Alluvium	24.3 - 34.0	0 U	24	64.2
ZTS-MW151	2/20/2024	N	PM04	1A	Downgradient	5	Alluvium	24.3 - 34.0	0 U	22.3	3.9
ZTS-MW151	5/21/2024	N	PM05	1A	Downgradient	5	Alluvium	24.3 - 34.0	0 U	25.3	19.9
ZTS-MW151	9/11/2024	N	PM06	1A	Downgradient	5	Alluvium	24.3 - 34.0	0 U	26.3	23.1
ZTS-MW155	5/24/2023	N	PM01	1A	Downgradient	5	Alluvium	20.3 - 35.0	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	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	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	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	0 U	24.7	14.4
ZTS-MW155	5/21/2024	FD	PM05	1A	Downgradient	5	Alluvium	20.3 - 35.0	----	----	----
ZTS-MW155	9/10/2024	N	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	0 U	26.2	34.1
ZTS-MW155	9/10/2024	FD	PM06	1A	Downgradient	5	Alluvium	20.3 - 35.0	----	----	----
ZTS-MW156	5/24/2023	N	PM01	1A	Downgradient	5	UMCf	43.8 - 53.5	0 U	33	162.9
ZTS-MW156	8/22/2023	N	PM02	1A	Downgradient	5	UMCf	43.8 - 53.5	0 U	27.3	1.8
ZTS-MW156	11/29/2023	N	PM03	1A	Downgradient	5	UMCf	43.8 - 53.5	0.6	23	2.6
ZTS-MW156	2/21/2024	N	PM04	1A	Downgradient	5	UMCf	43.8 - 53.5	0 U	23.8	26.5
ZTS-MW156	5/22/2024	N	PM05	1A	Downgradient	5	UMCf	43.8 - 53.5	0 U	26.4	13
ZTS-MW156	9/9/2024	N	PM06	1A	Downgradient	5	UMCf	43.8 - 53.5	0 U	41.3	86.6
ZTS-MW165	5/31/2023	N	PM01	1A	Downgradient	5	Alluvium	22.3 - 32.0	0 U	23.7	-0.6
ZTS-MW165	8/25/2023	N	PM02	1A	Downgradient	5	Alluvium	22.3 - 32.0	0 U	25.2	4.1
ZTS-MW165	11/30/2023	N	PM03	1A	Downgradient	5	Alluvium	22.3 - 32.0	0 U	23.7	3.9
ZTS-MW165	2/23/2024	N	PM04	1A	Downgradient	5	Alluvium	22.3 - 32.0	0 U	23.4	3.1
ZTS-MW165	5/23/2024	N	PM05	1A	Downgradient	5	Alluvium	22.3 - 32.0	0 U	24.1	1.9
ZTS-MW165	9/6/2024	N	PM06	1A	Downgradient	5	Alluvium	22.3 - 32.0	0 U	26.7	0.7
ZTS-MW152	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	24.8	36.6
ZTS-MW152	8/22/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	24.6	4
ZTS-MW152	11/28/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	24.1	13.8
ZTS-MW152	2/20/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	22	3
ZTS-MW152	5/21/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	24.8	7
ZTS-MW152	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	27.4	15.7

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW157	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	25.6	10.7
ZTS-MW157	8/23/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	26	10.9
ZTS-MW157	11/29/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	22.9	2
ZTS-MW157	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	22.9	2.4
ZTS-MW157	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	25.1	5.2
ZTS-MW157	9/10/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	25.7	15.1
ZTS-MW162	5/25/2023	N	PM01	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	26.1	8.6
ZTS-MW162	8/18/2023	N	PM02	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	27.8	58.4
ZTS-MW162	11/30/2023	N	PM03	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	22	3.3
ZTS-MW162	2/21/2024	N	PM04	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	23.7	3
ZTS-MW162	5/22/2024	N	PM05	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	26.4	6.3
ZTS-MW162	9/9/2024	N	PM06	1A	Downgradient	15	Alluvium	23.3 - 33.0	0 U	26.5	8.5
ZTS-MW149	5/31/2023	N	PM01	1A	Downgradient	25	Alluvium	23.3 - 33.0	0 U	24.8	52.6
ZTS-MW149	8/24/2023	N	PM02	1A	Downgradient	25	Alluvium	23.3 - 33.0	0 U	26.1	15.2
ZTS-MW149	11/30/2023	N	PM03	1A	Downgradient	25	Alluvium	23.3 - 33.0	0 U	23.5	6.9
ZTS-MW149	2/23/2024	N	PM04	1A	Downgradient	25	Alluvium	23.3 - 33.0	0 U	22.7	6.1
ZTS-MW149	5/22/2024	N	PM05	1A	Downgradient	25	Alluvium	23.3 - 33.0	0 U	24.9	8.7
ZTS-MW149	9/11/2024	N	PM06	1A	Downgradient	25	Alluvium	23.3 - 33.0	0 U	27.1	20.4
ZTS-MW144	5/31/2023	N	PM01	1A	Downgradient	35	Alluvium	24.0 - 34.0	0 U	24.7	-1
ZTS-MW144	8/24/2023	N	PM02	1A	Downgradient	35	Alluvium	24.0 - 34.0	0 U	25.1	43.6
ZTS-MW144	11/30/2023	N	PM03	1A	Downgradient	35	Alluvium	24.0 - 34.0	0 U	23.5	10.2
ZTS-MW144	2/23/2024	N	PM04	1A	Downgradient	35	Alluvium	24.0 - 34.0	0 U	23.6	5.6
ZTS-MW144	5/22/2024	N	PM05	1A	Downgradient	35	Alluvium	24.0 - 34.0	0 U	25.1	12.1
ZTS-MW144	9/11/2024	N	PM06	1A	Downgradient	35	Alluvium	24.0 - 34.0	0 U	26.6	16.4
ZTS-MW158	5/24/2023	N	PM01	1A	Downgradient	50	Alluvium	23.3 - 33.0	0 U	26.1	35.5
ZTS-MW158	8/25/2023	N	PM02	1A	Downgradient	50	Alluvium	23.3 - 33.0	0 U	26.7	39.7
ZTS-MW158	12/1/2023	N	PM03	1A	Downgradient	50	Alluvium	23.3 - 33.0	0 U	23.1	3.2
ZTS-MW158	2/27/2024	N	PM04	1A	Downgradient	50	Alluvium	23.3 - 33.0	0 U	23.7	4.2
ZTS-MW158	5/21/2024	N	PM05	1A	Downgradient	50	Alluvium	23.3 - 33.0	0 U	25.4	4.4
ZTS-MW158	9/12/2024	N	PM06	1A	Downgradient	50	Alluvium	23.3 - 33.0	0 U	26.8	29.2
ZTS-MW159	5/24/2023	N	PM01	1A	Downgradient	50	UMCf	38.8 - 48.5	0 U	33.7	4.5
ZTS-MW159	8/25/2023	N	PM02	1A	Downgradient	50	UMCf	38.8 - 48.5	0 U	26.3	11.4
ZTS-MW159	12/1/2023	N	PM03	1A	Downgradient	50	UMCf	38.8 - 48.5	0 U	23	3.6
ZTS-MW159	2/27/2024	N	PM04	1A	Downgradient	50	UMCf	38.8 - 48.5	0 U	23.6	5.7
ZTS-MW159	5/21/2024	N	PM05	1A	Downgradient	50	UMCf	38.8 - 48.5	0 U	24.8	7.1
ZTS-MW159	9/12/2024	N	PM06	1A	Downgradient	50	UMCf	38.8 - 48.5	0 U	26.9	45
ZTS-MW160	5/24/2023	N	PM01	1A	Downgradient	100	Alluvium	23.3 - 33.0	0 U	24.8	2.6
ZTS-MW160	8/28/2023	N	PM02	1A	Downgradient	100	Alluvium	23.3 - 33.0	0 U	25.2	20.4
ZTS-MW160	12/5/2023	N	PM03	1A	Downgradient	100	Alluvium	23.3 - 33.0	0 U	24.1	2.4
ZTS-MW160	2/27/2024	N	PM04	1A	Downgradient	100	Alluvium	23.3 - 33.0	0 U	24.6	3.3
ZTS-MW160	5/21/2024	N	PM05	1A	Downgradient	100	Alluvium	23.3 - 33.0	0 U	26.4	6.5
ZTS-MW160	9/13/2024	N	PM06	1A	Downgradient	100	Alluvium	23.3 - 33.0	0 U	26.5	9.6
ZTS-MW161	5/26/2023	N	PM01	1A	Downgradient	150	Alluvium	24.3 - 34.0	0 U	22.7	17.9
ZTS-MW161	8/25/2023	N	PM02	1A	Downgradient	150	Alluvium	24.3 - 34.0	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	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	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	0 U	25.3	41.4
ZTS-MW161	5/28/2024	FD	PM05	1A	Downgradient	150	Alluvium	24.3 - 34.0	----	----	----

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW161	9/13/2024	N	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	0 U	24.8	142.1
ZTS-MW161	9/13/2024	FD	PM06	1A	Downgradient	150	Alluvium	24.3 - 34.0	----	----	----
Between Test Area 1A and Test Area 1B											
Pre-Construction Baseline Results											
ZTS-MW145	10/24/2022	N	BL02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	0 U	23.3	9.5
ZTS-MW146	10/24/2022	N	BL02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	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	0 U	29.2	2.9
ZTS-MW145	8/30/2023	N	PM02	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	0 U	24.8	2.7
ZTS-MW145	12/6/2023	N	PM03	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	0 U	22.9	3
ZTS-MW145	2/21/2024	N	PM04	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	0 U	23.3	17
ZTS-MW145	5/20/2024	N	PM05	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	0 U	28.1	0.9
ZTS-MW145	9/16/2024	N	PM06	1A/1B	Upgradient	-50	UMCf	39.0 - 49.0	0 U	27.1	6
ZTS-MW146	5/26/2023	N	PM01	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	0 U	24.8	5.3
ZTS-MW146	8/25/2023	N	PM02	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	0.2	28.6	2.4
ZTS-MW146	11/30/2023	N	PM03	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	0.4	23.4	3.5
ZTS-MW146	2/23/2024	N	PM04	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	0.1	21.9	3.3
ZTS-MW146	5/23/2024	N	PM05	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	0.1	25.5	2.6
ZTS-MW146	9/12/2024	N	PM06	1A/1B	Downgradient	35	UMCf	41.0 - 51.0	0.1	26.9	4
Test Area 1B											
Pre-Construction Baseline Results											
ZTS-MW147	10/18/2022	N	BL02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0 U	23.3	34.8
ZTS-MW126	8/31/2022	N	BL01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	----	26.9	5
ZTS-MW126	10/18/2022	N	BL02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	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	----	28	6.3
ZTS-MW127	10/24/2022	N	BL02	1B	Upgradient	-8	Alluvium	18.0 - 23.0	0 U	22.4	12.9
ZTS-MW148	10/24/2022	N	BL02	1B	Downgradient	35	Alluvium	22.0 - 32.0	0 U	23.1	20.8
LVWPS-MW107A	10/24/2022	N	BL02	1B	Downgradient	50	Alluvium	24.8 - 34.5	0 U	21.7	5.6
LVWPS-MW107B	10/21/2022	N	BL02	1B	Downgradient	50	UMCf	46.0 - 65.8	0 U	26.6	8.9
LVWPS-MW107C	10/24/2022	N	BL02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	0 U	21.3	333.7
Post-Construction Performance Monitoring Results											
ZTS-MW147	5/26/2023	N	PM01	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0 U	26.8	7.4
ZTS-MW147	8/30/2023	N	PM02	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0 U	28.1	6.6
ZTS-MW147	12/1/2023	N	PM03	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0 U	22.6	6.5
ZTS-MW147	2/23/2024	N	PM04	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0 U	23.2	25
ZTS-MW147	5/28/2024	N	PM05	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0 U	26.5	6.4
ZTS-MW147	9/16/2024	N	PM06	1B	Upgradient	-50	Alluvium	19.5 - 29.5	0 U	25.6	90.8
ZTS-MW126	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	20.0 - 30.0	0 U	27.7	14.1
ZTS-MW126	8/25/2023	N	PM02	1B	Upgradient	-8	Alluvium	20.0 - 30.0	0 U	26.1	9
ZTS-MW126	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	20.0 - 30.0	0 U	22.6	21
ZTS-MW126	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	20.0 - 30.0	0 U	22.5	3.7
ZTS-MW126	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	20.0 - 30.0	0 U	29.2	4.7
ZTS-MW126	9/13/2024	N	PM06	1B	Upgradient	-8	Alluvium	20.0 - 30.0	8	26.1	103.5
ZTS-MW127R	5/25/2023	N	PM01	1B	Upgradient	-8	Alluvium	18.5 - 23.0	0 U	23.8	13.8
ZTS-MW127R	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	18.5 - 23.0	0 U	27.2	7.8
ZTS-MW127R	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	18.5 - 23.0	0 U	23.6	8.3
ZTS-MW127R	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	18.5 - 23.0	0 U	22.9	6.8
ZTS-MW127R	5/23/2024	N	PM05	1B	Upgradient	-8	Alluvium	18.5 - 23.0	0 U	25.8	5.7
ZTS-MW127R	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	18.5 - 23.0	0 U	27.4	17.7
ZTS-MW169	5/24/2023	N	PM01	1B	Upgradient	-8	Alluvium	17.1 - 27.0	0 U	27	9.8

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW169	8/28/2023	N	PM02	1B	Upgradient	-8	Alluvium	17.1 - 27.0	0 U	26.5	10.9
ZTS-MW169	11/30/2023	N	PM03	1B	Upgradient	-8	Alluvium	17.1 - 27.0	0 U	23.3	27
ZTS-MW169	2/23/2024	N	PM04	1B	Upgradient	-8	Alluvium	17.1 - 27.0	0 U	23.4	18.4
ZTS-MW169	5/24/2024	N	PM05	1B	Upgradient	-8	Alluvium	17.1 - 27.0	0 U	25.2	31.8
ZTS-MW169	9/16/2024	N	PM06	1B	Upgradient	-8	Alluvium	17.1 - 27.0	0 U	25.1	55.5
ZTS-MW170	5/24/2023	N	PM01	1B	Upgradient	-8	UMCf	31.1 - 41.0	0 U	26.7	20.5
ZTS-MW170	8/29/2023	N	PM02	1B	Upgradient	-8	UMCf	31.1 - 41.0	0 U	24.6	11.3
ZTS-MW170	11/30/2023	N	PM03	1B	Upgradient	-8	UMCf	31.1 - 41.0	0 U	23	13.2
ZTS-MW170	2/23/2024	N	PM04	1B	Upgradient	-8	UMCf	31.1 - 41.0	0.2	23.1	7.2
ZTS-MW170	5/24/2024	N	PM05	1B	Upgradient	-8	UMCf	31.1 - 41.0	0 U	24.4	6.7
ZTS-MW170	9/16/2024	N	PM06	1B	Upgradient	-8	UMCf	31.1 - 41.0	0 U	24.9	7.5
ZTS-MW166	5/23/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.8 - 29.5	0 U	32.1	13.1
ZTS-MW166	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.8 - 29.5	0 U	24.9	44.3
ZTS-MW166	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.8 - 29.5	0 U	23.1	4.8
ZTS-MW166	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.8 - 29.5	0 U	21.5	31
ZTS-MW166	5/20/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.8 - 29.5	0.2	26.4	262.6
ZTS-MW166	9/6/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.8 - 29.5	0 U	26.2	39
ZTS-MW171	5/22/2023	N	PM01	1B	Center of Trench	0	Alluvium	19.3 - 29.0	0 U	25.5	255
ZTS-MW171	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	19.3 - 29.0	0.5	24.8	33.1
ZTS-MW171	11/27/2023	N	PM03	1B	Center of Trench	0	Alluvium	19.3 - 29.0	0 U	23.4	28.9
ZTS-MW171	2/19/2024	N	PM04	1B	Center of Trench	0	Alluvium	19.3 - 29.0	0 U	24.7	33.9
ZTS-MW171	5/21/2024	N	PM05	1B	Center of Trench	0	Alluvium	19.3 - 29.0	0 U	25.4	51.6
ZTS-MW171	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	19.3 - 29.0	0 U	27.5	44.6
ZTS-MW178	5/25/2023	N	PM01	1B	Center of Trench	0	Alluvium	17.8 - 27.5	0 U	27.4	74.7
ZTS-MW178	8/21/2023	N	PM02	1B	Center of Trench	0	Alluvium	17.8 - 27.5	0.4	27.7	16.9
ZTS-MW178	11/28/2023	N	PM03	1B	Center of Trench	0	Alluvium	17.8 - 27.5	0 U	22.6	2.5
ZTS-MW178	2/20/2024	N	PM04	1B	Center of Trench	0	Alluvium	17.8 - 27.5	0 U	22.8	6.8
ZTS-MW178	5/22/2024	N	PM05	1B	Center of Trench	0	Alluvium	17.8 - 27.5	0.6	25.1	30
ZTS-MW178	9/5/2024	N	PM06	1B	Center of Trench	0	Alluvium	17.8 - 27.5	0 U	29	4.3
ZTS-MW167	5/24/2023	N	PM01	1B	Downgradient	5	Alluvium	23.3 - 33.0	0 U	25.1	8.4
ZTS-MW167	8/22/2023	N	PM02	1B	Downgradient	5	Alluvium	23.3 - 33.0	0 U	24.5	70.1
ZTS-MW167	11/28/2023	N	PM03	1B	Downgradient	5	Alluvium	23.3 - 33.0	0 U	23.7	7.8
ZTS-MW167	2/20/2024	N	PM04	1B	Downgradient	5	Alluvium	23.3 - 33.0	0 U	22.5	2.3
ZTS-MW167	5/23/2024	N	PM05	1B	Downgradient	5	Alluvium	23.3 - 33.0	0 U	25.5	19.4
ZTS-MW167	9/6/2024	N	PM06	1B	Downgradient	5	Alluvium	23.3 - 33.0	0 U	27.5	10.2
ZTS-MW172	5/23/2023	N	PM01	1B	Downgradient	5	Alluvium	17.3 - 27.0	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	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	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	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	0 U	24.7	11.7
ZTS-MW172	5/21/2024	FD	PM05	1B	Downgradient	5	Alluvium	17.3 - 27.0	----	----	----
ZTS-MW172	9/11/2024	N	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	0 U	26.3	6
ZTS-MW172	9/11/2024	FD	PM06	1B	Downgradient	5	Alluvium	17.3 - 27.0	----	----	----
ZTS-MW173	5/25/2023	N	PM01	1B	Downgradient	5	UMCf	33.3 - 43.0	0 U	23.6	14.5
ZTS-MW173	8/22/2023	N	PM02	1B	Downgradient	5	UMCf	33.3 - 43.0	0.2	32.4	22.7
ZTS-MW173	11/29/2023	N	PM03	1B	Downgradient	5	UMCf	33.3 - 43.0	0.3	21.8	5.7
ZTS-MW173	2/21/2024	N	PM04	1B	Downgradient	5	UMCf	33.3 - 43.0	0 U	23.7	14.5

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW173	5/21/2024	N	PM05	1B	Downgradient	5	UMCf	33.3 - 43.0	0 U	24.7	41
ZTS-MW173	9/12/2024	N	PM06	1B	Downgradient	5	UMCf	33.3 - 43.0	0 U	25.2	147.5
ZTS-MW179	5/25/2023	N	PM01	1B	Downgradient	5	Alluvium	18.3 - 23.0	0 U	24	8.1
ZTS-MW179	8/23/2023	N	PM02	1B	Downgradient	5	Alluvium	18.3 - 23.0	0 U	25.3	8.2
ZTS-MW179	11/30/2023	N	PM03	1B	Downgradient	5	Alluvium	18.3 - 23.0	0 U	23.9	5.7
ZTS-MW179	2/22/2024	N	PM04	1B	Downgradient	5	Alluvium	18.3 - 23.0	0 U	22.9	3.5
ZTS-MW179	5/22/2024	N	PM05	1B	Downgradient	5	Alluvium	18.3 - 23.0	0 U	24.8	10
ZTS-MW179	9/10/2024	N	PM06	1B	Downgradient	5	Alluvium	18.3 - 23.0	0 U	25.4	12.6
ZTS-MW168	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	25.9	11.2
ZTS-MW168	8/22/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	25.4	14.8
ZTS-MW168	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	----	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	0 U	23.4	3.8
ZTS-MW168	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	22.2	6.9
ZTS-MW168	5/23/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	24.7	24.3
ZTS-MW168	9/6/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	27.2	9.9
ZTS-MW174	5/24/2023	N	PM01	1B	Downgradient	15	Alluvium	19.8 - 29.5	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	0 U	26.2	17.9
ZTS-MW174	10/11/2023	N	PM02	1B	Downgradient	15	Alluvium	19.8 - 29.5	----	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	0 U	23.5	7.4
ZTS-MW174	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	19.8 - 29.5	0 U	23.4	7.9
ZTS-MW174	5/24/2024	N	PM05	1B	Downgradient	15	Alluvium	19.8 - 29.5	0 U	24.9	41.7
ZTS-MW174	9/11/2024	N	PM06	1B	Downgradient	15	Alluvium	19.8 - 29.5	0 U	25.9	8.7
ZTS-MW177	5/25/2023	N	PM01	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	26.3	66.5
ZTS-MW177	8/23/2023	N	PM02	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	27	43
ZTS-MW177	11/29/2023	N	PM03	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	24.4	15.1
ZTS-MW177	2/21/2024	N	PM04	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	23.4	16.1
ZTS-MW177	5/22/2024	N	PM05	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	25.6	12.5
ZTS-MW177	9/10/2024	N	PM06	1B	Downgradient	15	Alluvium	20.3 - 30.0	0 U	27.5	14.4
ZTS-MW180	5/24/2023	N	PM01	1B	Downgradient	25	Alluvium	17.8 - 22.5	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	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	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	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	0 U	24.7	3.8
ZTS-MW180	5/24/2024	FD	PM05	1B	Downgradient	25	Alluvium	17.8 - 22.5	----	----	----
ZTS-MW180	9/10/2024	N	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	0 U	26.3	6.5
ZTS-MW180	9/10/2024	FD	PM06	1B	Downgradient	25	Alluvium	17.8 - 22.5	----	----	----
ZTS-MW148	5/25/2023	N	PM01	1B	Downgradient	35	Alluvium	22.0 - 32.0	0 U	25.3	8.9
ZTS-MW148	8/23/2023	N	PM02	1B	Downgradient	35	Alluvium	22.0 - 32.0	0 U	26.9	6.4
ZTS-MW148	11/28/2023	N	PM03	1B	Downgradient	35	Alluvium	22.0 - 32.0	0 U	24.1	5.7
ZTS-MW148	2/20/2024	N	PM04	1B	Downgradient	35	Alluvium	22.0 - 32.0	0 U	22.4	5
ZTS-MW148	5/23/2024	N	PM05	1B	Downgradient	35	Alluvium	22.0 - 32.0	0 U	24.9	210.6
ZTS-MW148	9/12/2024	N	PM06	1B	Downgradient	35	Alluvium	22.0 - 32.0	0 U	25.1	9.9

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
LVWPS-MW107A	5/23/2023	N	PM01	1B	Downgradient	50	Alluvium	24.8 - 34.5	0 U	27.1	6.2
LVWPS-MW107A	8/24/2023	N	PM02	1B	Downgradient	50	Alluvium	24.8 - 34.5	0 U	27.7	8.6
LVWPS-MW107A	11/30/2023	N	PM03	1B	Downgradient	50	Alluvium	24.8 - 34.5	0 U	23.6	9.1
LVWPS-MW107A	2/22/2024	N	PM04	1B	Downgradient	50	Alluvium	24.8 - 34.5	0 U	23.6	48.4
LVWPS-MW107A	5/28/2024	N	PM05	1B	Downgradient	50	Alluvium	24.8 - 34.5	0 U	26.7	29.7
LVWPS-MW107A	9/12/2024	N	PM06	1B	Downgradient	50	Alluvium	24.8 - 34.5	0 U	27.6	14.7
LVWPS-MW107B	5/23/2023	N	PM01	1B	Downgradient	50	UMCf	46.0 - 65.8	0 U	28	10.9
LVWPS-MW107B	8/24/2023	N	PM02	1B	Downgradient	50	UMCf	46.0 - 65.8	0.2	27.4	45.8
LVWPS-MW107B	12/1/2023	N	PM03	1B	Downgradient	50	UMCf	46.0 - 65.8	0 U	19.5	7.8
LVWPS-MW107B	2/23/2024	N	PM04	1B	Downgradient	50	UMCf	46.0 - 65.8	0.2	18.3	10.3
LVWPS-MW107B	5/24/2024	N	PM05	1B	Downgradient	50	UMCf	46.0 - 65.8	0 U	29.1	12.5
LVWPS-MW107B	9/12/2024	N	PM06	1B	Downgradient	50	UMCf	46.0 - 65.8	0 U	27	14.3
LVWPS-MW107C	5/23/2023	N	PM01	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	0 U	26.8	94.3
LVWPS-MW107C	8/24/2023	N	PM02	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	1.2	34.6	8
LVWPS-MW107C	12/1/2023	N	PM03	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	0.3	15.8	7
LVWPS-MW107C	2/23/2024	N	PM04	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	0.2	21.1	157.5
LVWPS-MW107C	5/28/2024	N	PM05	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	0.4	27.2	147.7
LVWPS-MW107C	9/13/2024	N	PM06	1B	Downgradient	50	UMCf (Semi-Cons)	100.3 - 120.0	0.2	25.6	123.5
ZTS-MW175	5/26/2023	N	PM01	1B	Downgradient	100	Alluvium	19.8 - 29.5	0 U	23.4	53
ZTS-MW175	8/25/2023	N	PM02	1B	Downgradient	100	Alluvium	19.8 - 29.5	0 U	25.2	41.7
ZTS-MW175	11/30/2023	N	PM03	1B	Downgradient	100	Alluvium	19.8 - 29.5	0 U	23.9	66.2
ZTS-MW175	2/28/2024	N	PM04	1B	Downgradient	100	Alluvium	19.8 - 29.5	0 U	24.2	9.1
ZTS-MW175	5/28/2024	N	PM05	1B	Downgradient	100	Alluvium	19.8 - 29.5	0 U	24.6	18.6
ZTS-MW175	9/12/2024	N	PM06	1B	Downgradient	100	Alluvium	19.8 - 29.5	0 U	27.1	7.8
ZTS-MW176	5/26/2023	N	PM01	1B	Downgradient	150	Alluvium	19.8 - 29.5	0 U	22.3	8.6
ZTS-MW176	8/25/2023	N	PM02	1B	Downgradient	150	Alluvium	19.8 - 29.5	0 U	26.3	5.9
ZTS-MW176	12/5/2023	N	PM03	1B	Downgradient	150	Alluvium	19.8 - 29.5	0 U	24.3	1.4
ZTS-MW176	2/27/2024	N	PM04	1B	Downgradient	150	Alluvium	19.8 - 29.5	0 U	24.1	2.6
ZTS-MW176	5/24/2024	N	PM05	1B	Downgradient	150	Alluvium	19.8 - 29.5	0 U	25.6	16.9
ZTS-MW176	9/13/2024	N	PM06	1B	Downgradient	150	Alluvium	19.8 - 29.5	0 U	25	2.5
Test Area 2A											
Pre-Construction Baseline Results											
ZTS-MW137	10/20/2022	N	BL02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	0 U	23.4	35.6
ZTS-MW118	9/1/2022	N	BL01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	27.1	17
ZTS-MW118	10/21/2022	N	BL02	2A	Upgradient	-3	Alluvium	13.5 - 23.5	0 U	22.6	6.8
ZTS-MW138	10/20/2022	N	BL02	2A	Downgradient	5	Alluvium	14.0 - 24.0	0 U	23.5	68.3
ZTS-MW139	10/21/2022	N	BL02	2A	Downgradient	5	Alluvium	13.0 - 23.0	0 U	23.5	21.2
ZTS-MW113	10/25/2022	N	BL02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	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	0 U	26.7	32.7
ZTS-MW137	8/24/2023	N	PM02	2A	Upgradient	-9	Alluvium	14.0 - 24.0	0 U	27.2	18.5
ZTS-MW137	12/1/2023	N	PM03	2A	Upgradient	-9	Alluvium	14.0 - 24.0	0 U	23.1	11.2
ZTS-MW137	2/23/2024	N	PM04	2A	Upgradient	-9	Alluvium	14.0 - 24.0	0 U	23.2	55.4
ZTS-MW137	5/24/2024	N	PM05	2A	Upgradient	-9	Alluvium	14.0 - 24.0	0 U	24.6	22
ZTS-MW137	9/16/2024	N	PM06	2A	Upgradient	-9	Alluvium	14.0 - 24.0	0 U	25.7	25.9
ZTS-MW118	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.5 - 23.5	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	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	0 U	24	2
ZTS-MW118	12/1/2023	FD	PM03	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW118	2/23/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.5 - 23.5	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	0 U	23.2	6.2
ZTS-MW118	5/24/2024	FD	PM05	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----
ZTS-MW118	9/16/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	0 U	25.3	3.6
ZTS-MW118	9/16/2024	FD	PM06	2A	Upgradient	-3	Alluvium	13.5 - 23.5	----	----	----
ZTS-MW190	5/31/2023	N	PM01	2A	Upgradient	-3	Alluvium	14.3 - 24.0	0 U	25.3	33
ZTS-MW190	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	14.3 - 24.0	0 U	24.9	23.7
ZTS-MW190	12/1/2023	N	PM03	2A	Upgradient	-3	Alluvium	14.3 - 24.0	0 U	24.2	14.1
ZTS-MW190	2/22/2024	N	PM04	2A	Upgradient	-3	Alluvium	14.3 - 24.0	0 U	23.8	17.3
ZTS-MW190	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	14.3 - 24.0	0 U	25.4	22.6
ZTS-MW190	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	14.3 - 24.0	0 U	24.9	20.9
ZTS-MW196	5/30/2023	N	PM01	2A	Upgradient	-3	Alluvium	13.8 - 23.5	0 U	25.5	63.8
ZTS-MW196	8/25/2023	N	PM02	2A	Upgradient	-3	Alluvium	13.8 - 23.5	0 U	28	70.5
ZTS-MW196	11/30/2023	N	PM03	2A	Upgradient	-3	Alluvium	13.8 - 23.5	0 U	23.3	23.7
ZTS-MW196	2/26/2024	N	PM04	2A	Upgradient	-3	Alluvium	13.8 - 23.5	0 U	24.1	17.9
ZTS-MW196	5/23/2024	N	PM05	2A	Upgradient	-3	Alluvium	13.8 - 23.5	0 U	26.6	162.9
ZTS-MW196	9/17/2024	N	PM06	2A	Upgradient	-3	Alluvium	13.8 - 23.5	0 U	26.3	20.6
ZTS-MW202	5/30/2023	N	PM01	2A	Upgradient	-3	UMCf	28.8 - 38.5	0 U	25.9	20
ZTS-MW202	8/28/2023	N	PM02	2A	Upgradient	-3	UMCf	28.8 - 38.5	0 U	27.4	7.7
ZTS-MW202	12/1/2023	N	PM03	2A	Upgradient	-3	UMCf	28.8 - 38.5	0 U	22.9	8.1
ZTS-MW202	2/27/2024	N	PM04	2A	Upgradient	-3	UMCf	28.8 - 38.5	0 U	22.7	13.1
ZTS-MW202	5/23/2024	N	PM05	2A	Upgradient	-3	UMCf	28.8 - 38.5	0 U	26.4	36.6
ZTS-MW202	9/16/2024	N	PM06	2A	Upgradient	-3	UMCf	28.8 - 38.5	0 U	25.1	28.4
ZTS-MW192	5/22/2023	N	PM01	2A	Center of Array	0	Alluvium	14.3 - 24.0	0 U	26.4	22.7
ZTS-MW192	8/21/2023	N	PM02	2A	Center of Array	0	Alluvium	14.3 - 24.0	0 U	24.2	35.7
ZTS-MW192	11/28/2023	N	PM03	2A	Center of Array	0	Alluvium	14.3 - 24.0	0 U	24.2	23.8
ZTS-MW192	2/20/2024	N	PM04	2A	Center of Array	0	Alluvium	14.3 - 24.0	0 U	21.4	195
ZTS-MW192	5/21/2024	N	PM05	2A	Center of Array	0	Alluvium	14.3 - 24.0	0 U	23.3	10.3
ZTS-MW192	9/17/2024	N	PM06	2A	Center of Array	0	Alluvium	14.3 - 24.0	0 U	25.5	43.1
ZTS-MW191	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.8 - 24.5	0 U	25	70.1
ZTS-MW191	8/22/2023	N	PM02	2A	Downgradient	1	Alluvium	14.8 - 24.5	0 U	27.3	54.1
ZTS-MW191	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.8 - 24.5	0 U	23.1	8.3
ZTS-MW191	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.8 - 24.5	0 U	22.8	63.8
ZTS-MW191	5/22/2024	N	PM05	2A	Downgradient	1	Alluvium	14.8 - 24.5	0 U	23.3	29.5
ZTS-MW191	9/18/2024	N	PM06	2A	Downgradient	1	Alluvium	14.8 - 24.5	0 U	26.2	32.1
ZTS-MW195	5/26/2023	N	PM01	2A	Downgradient	1	Alluvium	14.3 - 24.0	0 U	23.1	346.9
ZTS-MW195	8/21/2023	N	PM02	2A	Downgradient	1	Alluvium	14.3 - 24.0	0 U	25.1	34.3
ZTS-MW195	11/29/2023	N	PM03	2A	Downgradient	1	Alluvium	14.3 - 24.0	0 U	23.9	16.7
ZTS-MW195	2/21/2024	N	PM04	2A	Downgradient	1	Alluvium	14.3 - 24.0	0 U	23.4	8.1
ZTS-MW195	5/21/2024	N	PM05	2A	Downgradient	1	Alluvium	14.3 - 24.0	0 U	24.9	14.7
ZTS-MW195	9/19/2024	N	PM06	2A	Downgradient	1	Alluvium	14.3 - 24.0	0 U	24.6	39.4
ZTS-MW138	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	14.0 - 24.0	0 U	26.1	18.9
ZTS-MW138	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	14.0 - 24.0	0 U	25.1	10.9
ZTS-MW138	11/28/2023	N	PM03	2A	Downgradient	5	Alluvium	14.0 - 24.0	0 U	24.5	36.5
ZTS-MW138	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	14.0 - 24.0	0 U	22.7	30.5
ZTS-MW138	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	14.0 - 24.0	0 U	24	13.7
ZTS-MW138	9/17/2024	N	PM06	2A	Downgradient	5	Alluvium	14.0 - 24.0	0 U	25.6	126.6
ZTS-MW139	5/24/2023	N	PM01	2A	Downgradient	5	Alluvium	13.0 - 23.0	0 U	25.8	25.3
ZTS-MW139	8/21/2023	N	PM02	2A	Downgradient	5	Alluvium	13.0 - 23.0	0 U	26	13.6
ZTS-MW139	11/29/2023	N	PM03	2A	Downgradient	5	Alluvium	13.0 - 23.0	0 U	22.6	6.9

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW139	2/21/2024	N	PM04	2A	Downgradient	5	Alluvium	13.0 - 23.0	0 U	22.6	11.7
ZTS-MW139	5/21/2024	N	PM05	2A	Downgradient	5	Alluvium	13.0 - 23.0	0 U	24	15.7
ZTS-MW139	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.0 - 23.0	0 U	24	19.2
ZTS-MW193	5/25/2023	N	PM01	2A	Downgradient	5	Alluvium	13.6 - 23.3	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	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	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	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	0 U	25.2	9.6
ZTS-MW193	5/22/2024	FD	PM05	2A	Downgradient	5	Alluvium	13.6 - 23.3	----	----	----
ZTS-MW193	9/18/2024	N	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	0 U	24.5	21.4
ZTS-MW193	9/18/2024	FD	PM06	2A	Downgradient	5	Alluvium	13.6 - 23.3	----	----	----
ZTS-MW203	5/30/2023	N	PM01	2A	Downgradient	5	UMCf	28.3 - 38.0	0 U	26.5	19
ZTS-MW203	8/23/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	0 U	24.5	4.3
ZTS-MW203	10/11/2023	N	PM02	2A	Downgradient	5	UMCf	28.3 - 38.0	----	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	0 U	23.7	16.2
ZTS-MW203	2/22/2024	N	PM04	2A	Downgradient	5	UMCf	28.3 - 38.0	0 U	23.4	35.4
ZTS-MW203	5/23/2024	N	PM05	2A	Downgradient	5	UMCf	28.3 - 38.0	0 U	23.9	51.7
ZTS-MW203	9/17/2024	N	PM06	2A	Downgradient	5	UMCf	28.3 - 38.0	0 U	25.8	142.5
ZTS-MW194	5/25/2023	N	PM01	2A	Downgradient	15	Alluvium	17.8 - 22.5	0 U	24.6	22.1
ZTS-MW194	8/22/2023	N	PM02	2A	Downgradient	15	Alluvium	17.8 - 22.5	0 U	24.4	11.8
ZTS-MW194	11/29/2023	N	PM03	2A	Downgradient	15	Alluvium	17.8 - 22.5	0 U	23.8	10.4
ZTS-MW194	2/22/2024	N	PM04	2A	Downgradient	15	Alluvium	17.8 - 22.5	0 U	21.7	40.6
ZTS-MW194	5/22/2024	N	PM05	2A	Downgradient	15	Alluvium	17.8 - 22.5	0 U	23.8	17.4
ZTS-MW194	9/18/2024	N	PM06	2A	Downgradient	15	Alluvium	17.8 - 22.5	0 U	25.7	18.9
ZTS-MW197	5/26/2023	N	PM01	2A	Downgradient	55	Alluvium	12.8 - 22.5	0 U	22.8	40.4
ZTS-MW197	8/22/2023	N	PM02	2A	Downgradient	55	Alluvium	12.8 - 22.5	0 U	24.8	11.8
ZTS-MW197	11/30/2023	N	PM03	2A	Downgradient	55	Alluvium	12.8 - 22.5	0 U	22.5	72.8
ZTS-MW197	2/22/2024	N	PM04	2A	Downgradient	55	Alluvium	12.8 - 22.5	0 U	22.6	55.8
ZTS-MW197	5/22/2024	N	PM05	2A	Downgradient	55	Alluvium	12.8 - 22.5	0 U	24.2	19.1
ZTS-MW197	9/17/2024	N	PM06	2A	Downgradient	55	Alluvium	12.8 - 22.5	0 U	25.5	85.8
ZTS-MW113	5/26/2023	N	PM01	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0 U	24	2.4
ZTS-MW113	8/24/2023	N	PM02	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0 U	24.1	2.5
ZTS-MW113	11/30/2023	N	PM03	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0 U	23.1	2.9
ZTS-MW113	2/23/2024	N	PM04	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0 U	23.2	9
ZTS-MW113	5/23/2024	N	PM05	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0 U	23.4	0.8
ZTS-MW113	9/19/2024	N	PM06	2A	Cross/Downgradient	60	Alluvium	20.0 - 30.0	0 U	23.7	5.5
Test Area 2B											
Pre-Construction Baseline Results											
ZTS-MW133	10/20/2022	N	BL02	2B	Upgradient	-9	UMCf	54.0 - 69.0	0 U	21.1	115.7
ZTS-MW117	9/1/2022	N	BL01	2B	Upgradient	-2	UMCf	40.5 - 55.5	----	34.6	25
ZTS-MW117	10/19/2022	N	BL02	2B	Upgradient	-2	UMCf	40.5 - 55.5	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	0 U	24.6	8.4
ZTS-MW135	10/19/2022	N	BL02	2B	Downgradient	7	UMCf	54.0 - 69.0	0 U	24.4	98.2
ZTS-MW136	10/20/2022	N	BL02	2B	Cross Gradient	7	UMCf	27.0 - 47.0	0 U	23	71.9
Post-Construction Performance Monitoring Results											

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW133	5/23/2023	N	PM01	2B	Upgradient	-9	UMCf	54.0 - 69.0	0 U	23	33
ZTS-MW133	8/30/2023	N	PM02	2B	Upgradient	-9	UMCf	54.0 - 69.0	0 U	26.9	31.2
ZTS-MW133	12/4/2023	N	PM03	2B	Upgradient	-9	UMCf	54.0 - 69.0	0 U	23.4	48.2
ZTS-MW133	2/23/2024	N	PM04	2B	Upgradient	-9	UMCf	54.0 - 69.0	0 U	21.8	17.2
ZTS-MW133	5/24/2024	N	PM05	2B	Upgradient	-9	UMCf	54.0 - 69.0	0 U	24.8	40.7
ZTS-MW133	9/17/2024	N	PM06	2B	Upgradient	-9	UMCf	54.0 - 69.0	0 U	24.3	6
ZTS-MW117	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	40.5 - 55.5	0.1	30.4	2
ZTS-MW117	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	40.5 - 55.5	0 U	25.2	21.4
ZTS-MW117	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	40.5 - 55.5	0 U	22.6	5.3
ZTS-MW117	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	40.5 - 55.5	0.6	18.7	4.8
ZTS-MW117	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	40.5 - 55.5	0.04 U	30.9	26.4
ZTS-MW117	9/17/2024	N	PM06	2B	Upgradient	-2	UMCf	40.5 - 55.5	0 U	25.4	1
ZTS-MW134	5/25/2023	N	PM01	2B	Upgradient	-2	UMCf	26.0 - 36.0	0 U	30.1	28.7
ZTS-MW134	8/24/2023	N	PM02	2B	Upgradient	-2	UMCf	26.0 - 36.0	0 U	28.1	26.8
ZTS-MW134	11/29/2023	N	PM03	2B	Upgradient	-2	UMCf	26.0 - 36.0	0 U	23.1	7
ZTS-MW134	2/23/2024	N	PM04	2B	Upgradient	-2	UMCf	26.0 - 36.0	0 U	18.2	18.4
ZTS-MW134	5/22/2024	N	PM05	2B	Upgradient	-2	UMCf	26.0 - 36.0	0 U	27.7	18.8
ZTS-MW134	9/19/2024	N	PM06	2B	Upgradient	-2	UMCf	26.0 - 36.0	0 U	24	7.6
ZTS-MW198	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	26.1 - 46.0	0 U	26.8	55.2
ZTS-MW198	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	26.1 - 46.0	0 U	25.3	34.2
ZTS-MW198	11/27/2023	N	PM03	2B	Downgradient	2	UMCf	26.1 - 46.0	0 U	23.3	4
ZTS-MW198	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	26.1 - 46.0	0 U	21	38.5
ZTS-MW198	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	26.1 - 46.0	0 U	30.3	26.6
ZTS-MW198	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	26.1 - 46.0	0 U	26.7	57.5
ZTS-MW200	5/23/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	26.3	104
ZTS-MW200	5/23/2023	FD	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	----	----	----
ZTS-MW200	8/21/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	28.7	11
ZTS-MW200	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	0.2	18.9	4.9
ZTS-MW200	2/20/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	17.6	37.5
ZTS-MW200	5/20/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	33.9	65.8
ZTS-MW200	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	0.2	28.2	207.4
ZTS-MW201	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	27.1 - 47.0	0 U	25.3	15.1
ZTS-MW201	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	27.1 - 47.0	0 U	27.8	28.2
ZTS-MW201	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	27.1 - 47.0	0 U	22.9	13.3
ZTS-MW201	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	27.1 - 47.0	0 U	20.8	22.2
ZTS-MW201	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	27.1 - 47.0	0 U	25.4	1.8
ZTS-MW201	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	27.1 - 47.0	0 U	25.3	19.5
ZTS-MW206	5/24/2023	N	PM01	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	25.4	15.9
ZTS-MW206	8/22/2023	N	PM02	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	30.1	9.5
ZTS-MW206	11/28/2023	N	PM03	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	23.3	18.5
ZTS-MW206	2/22/2024	N	PM04	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	21.2	40.1
ZTS-MW206	5/21/2024	N	PM05	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	25.6	13.5
ZTS-MW206	9/18/2024	N	PM06	2B	Downgradient	2	UMCf	50.1 - 65.0	0 U	23.7	170
ZTS-MW199	5/23/2023	N	PM01	2B	Downgradient	5	UMCf	50.1 - 65.0	0 U	29.4	16.7
ZTS-MW199	8/22/2023	N	PM02	2B	Downgradient	5	UMCf	50.1 - 65.0	0 U	24.6	26.5
ZTS-MW199	11/28/2023	N	PM03	2B	Downgradient	5	UMCf	50.1 - 65.0	0.2	22.2	77.7
ZTS-MW199	2/20/2024	N	PM04	2B	Downgradient	5	UMCf	50.1 - 65.0	0 U	19.9	8.1
ZTS-MW199	5/20/2024	N	PM05	2B	Downgradient	5	UMCf	50.1 - 65.0	0 U	32.6	14.9
ZTS-MW199	9/19/2024	N	PM06	2B	Downgradient	5	UMCf	50.1 - 65.0	0 U	25.6	13.3
ZTS-MW207	5/24/2023	N	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	0 U	25.2	9.6
ZTS-MW207	5/24/2023	FD	PM01	2B	Downgradient	5	UMCf	26.1 - 46.0	----	----	----

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW207	8/23/2023	N	PM02	2B	Downgradient	5	UMCf	26.1 - 46.0	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	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	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	0 U	25.1	16.7
ZTS-MW207	5/22/2024	FD	PM05	2B	Downgradient	5	UMCf	26.1 - 46.0	----	----	----
ZTS-MW207	9/17/2024	N	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	0 U	26.3	33.5
ZTS-MW207	9/17/2024	FD	PM06	2B	Downgradient	5	UMCf	26.1 - 46.0	----	----	----
ZTS-MW135	5/26/2023	N	PM01	2B	Downgradient	7	UMCf	54.0 - 69.0	0 U	23.1	20.7
ZTS-MW135	8/24/2023	N	PM02	2B	Downgradient	7	UMCf	54.0 - 69.0	0 U	25.7	94.8
ZTS-MW135	11/30/2023	N	PM03	2B	Downgradient	7	UMCf	54.0 - 69.0	0 U	22.2	62
ZTS-MW135	2/22/2024	N	PM04	2B	Downgradient	7	UMCf	54.0 - 69.0	0 U	22.2	37.5
ZTS-MW135	5/22/2024	N	PM05	2B	Downgradient	7	UMCf	54.0 - 69.0	0 U	26	46.2
ZTS-MW135	9/17/2024	N	PM06	2B	Downgradient	7	UMCf	54.0 - 69.0	0 U	26	57.3
ZTS-MW136	5/26/2023	N	PM01	2B	Cross Gradient	7	UMCf	27.0 - 47.0	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 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	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	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	0 U	29.8	47.9
ZTS-MW136	5/21/2024	FD	PM05	2B	Cross Gradient	7	UMCf	27.0 - 47.0	----	----	----
ZTS-MW136	9/12/2024	N	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	0 U	25.6	7
ZTS-MW136	9/12/2024	FD	PM06	2B	Cross Gradient	7	UMCf	27.0 - 47.0	----	----	----
ZTS-MW208	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	26.1 - 46.0	0 U	23.6	50.4
ZTS-MW208	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	26.1 - 46.0	0 U	29.8	41.8
ZTS-MW208	11/28/2023	N	PM03	2B	Downgradient	15	UMCf	26.1 - 46.0	0 U	23.5	42.3
ZTS-MW208	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	26.1 - 46.0	0 U	22.6	42.2
ZTS-MW208	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	26.1 - 46.0	0 U	24.8	305
ZTS-MW208	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	26.1 - 46.0	0 U	24.3	15.4
ZTS-MW209	5/25/2023	N	PM01	2B	Downgradient	15	UMCf	50.6 - 65.5	0 U	24.9	71.5
ZTS-MW209	8/23/2023	N	PM02	2B	Downgradient	15	UMCf	50.6 - 65.5	0 U	25.8	51.4
ZTS-MW209	11/29/2023	N	PM03	2B	Downgradient	15	UMCf	50.6 - 65.5	0 U	22.1	40.5
ZTS-MW209	2/22/2024	N	PM04	2B	Downgradient	15	UMCf	50.6 - 65.5	0 U	22.6	16.7
ZTS-MW209	5/23/2024	N	PM05	2B	Downgradient	15	UMCf	50.6 - 65.5	0 U	23.9	30.6
ZTS-MW209	9/18/2024	N	PM06	2B	Downgradient	15	UMCf	50.6 - 65.5	0 U	25	7.2
Test Area 2C											
Pre-Construction Baseline Results											
ZTS-MW140	10/21/2022	N	BL02	2C	Upgradient	-9	Alluvium	15.5 - 25.5	0 U	23.6	82.3
ZTS-MW119	9/1/2022	N	BL01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	----	26	33.3
ZTS-MW119	10/19/2022	N	BL02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	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	0 U	24.2	38.6
ZTS-MW142	10/21/2022	N	BL02	2C	Downgradient	5	Alluvium	16.0 - 26.0	0 U	24.3	106.7
LVWPS-MW102A	10/21/2022	N	BL02	2C	Downgradient	30	UMCf	47.0 - 66.6	0 U	23	146
LVWPS-MW102B	10/21/2022	N	BL02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	0 U	23.9	116.3
Post-Construction Performance Monitoring Results											

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW140	5/25/2023	N	PM01	2C	Upgradient	-9	Alluvium	15.5 - 25.5	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	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	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	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	0 U	24	427.1
ZTS-MW140	5/24/2024	FD	PM05	2C	Upgradient	-9	Alluvium	15.5 - 25.5	----	----	----
ZTS-MW140	9/11/2024	N	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	0 U	25.1	24
ZTS-MW140	9/11/2024	FD	PM06	2C	Upgradient	-9	Alluvium	15.5 - 25.5	----	----	----
ZTS-MW119	5/24/2023	N	PM01	2C	Upgradient	-3	Alluvium	15.0 - 25.0	0 U	24.5	22.1
ZTS-MW119	8/29/2023	N	PM02	2C	Upgradient	-3	Alluvium	15.0 - 25.0	0 U	25.1	11
ZTS-MW119	12/4/2023	N	PM03	2C	Upgradient	-3	Alluvium	15.0 - 25.0	0 U	24	6.7
ZTS-MW119	2/22/2024	N	PM04	2C	Upgradient	-3	Alluvium	15.0 - 25.0	0 U	23.3	7.5
ZTS-MW119	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	15.0 - 25.0	0 U	24.8	21.9
ZTS-MW119	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	15.0 - 25.0	0 U	25.7	9.9
ZTS-MW181	5/25/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	22.7	127.1
ZTS-MW181	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	25.1	107.3
ZTS-MW181	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	24.1	20.6
ZTS-MW181	2/28/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	23	23.2
ZTS-MW181	5/24/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	23.8	37.7
ZTS-MW181	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	25.1	31.5
ZTS-MW188	5/26/2023	N	PM01	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	24.5	19.3
ZTS-MW188	8/25/2023	N	PM02	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	24	17.5
ZTS-MW188	12/6/2023	N	PM03	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	24	72.3
ZTS-MW188	2/23/2024	N	PM04	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	21.2	93
ZTS-MW188	5/22/2024	N	PM05	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	24.1	25.6
ZTS-MW188	9/11/2024	N	PM06	2C	Upgradient	-3	Alluvium	17.3 - 27.0	0 U	25.5	22.9
ZTS-MW204	5/25/2023	N	PM01	2C	Upgradient	-3	UMCf	30.3 - 40.0	0 U	23.3	56
ZTS-MW204	8/25/2023	N	PM02	2C	Upgradient	-3	UMCf	30.3 - 40.0	0 U	27.4	11
ZTS-MW204	12/1/2023	N	PM03	2C	Upgradient	-3	UMCf	30.3 - 40.0	0 U	21.8	16.8
ZTS-MW204	2/22/2024	N	PM04	2C	Upgradient	-3	UMCf	30.3 - 40.0	0 U	23.7	17.9
ZTS-MW204	5/24/2024	N	PM05	2C	Upgradient	-3	UMCf	30.3 - 40.0	0 U	28.9	29.2
ZTS-MW204	9/11/2024	N	PM06	2C	Upgradient	-3	UMCf	30.3 - 40.0	0 U	28.8	13.6
ZTS-MW182	5/23/2023	N	PM01	2C	Center of Array	0	Alluvium	17.6 - 27.3	0 U	24.8	145.5
ZTS-MW182	8/22/2023	N	PM02	2C	Center of Array	0	Alluvium	17.6 - 27.3	0 U	24.4	42.7
ZTS-MW182	11/27/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	----	23.5	23.4
ZTS-MW182	11/28/2023	N	PM03	2C	Center of Array	0	Alluvium	17.6 - 27.3	0 U	22.6	13.1
ZTS-MW182	2/19/2024	N	PM04	2C	Center of Array	0	Alluvium	17.6 - 27.3	0 U	23.9	116.7
ZTS-MW182	5/23/2024	N	PM05	2C	Center of Array	0	Alluvium	17.6 - 27.3	0 U	23.4	43.5
ZTS-MW182	9/6/2024	N	PM06	2C	Center of Array	0	Alluvium	17.6 - 27.3	0 U	25.8	43.2
ZTS-MW183	5/23/2023	N	PM01	2C	Downgradient	1	Alluvium	17.3 - 27.0	0 U	27.9	41.1
ZTS-MW183	8/22/2023	N	PM02	2C	Downgradient	1	Alluvium	17.3 - 27.0	0 U	25.3	34
ZTS-MW183	11/28/2023	N	PM03	2C	Downgradient	1	Alluvium	17.3 - 27.0	0 U	23.4	13.2
ZTS-MW183	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	17.3 - 27.0	0 U	21.8	16.2
ZTS-MW183	5/23/2024	N	PM05	2C	Downgradient	1	Alluvium	17.3 - 27.0	0 U	24.3	13.4
ZTS-MW183	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	17.3 - 27.0	0 U	28.1	27.8
ZTS-MW187	5/24/2023	N	PM01	2C	Downgradient	1	Alluvium	15.3 - 25.0	0 U	25.2	31.6
ZTS-MW187	8/23/2023	N	PM02	2C	Downgradient	1	Alluvium	15.3 - 25.0	0 U	24.2	29.8

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
ZTS-MW187	11/29/2023	N	PM03	2C	Downgradient	1	Alluvium	15.3 - 25.0	0 U	22.5	6.5
ZTS-MW187	2/20/2024	N	PM04	2C	Downgradient	1	Alluvium	15.3 - 25.0	0 U	22.3	7.7
ZTS-MW187	5/22/2024	N	PM05	2C	Downgradient	1	Alluvium	15.3 - 25.0	0 U	25.8	13.8
ZTS-MW187	9/6/2024	N	PM06	2C	Downgradient	1	Alluvium	15.3 - 25.0	0 U	25.7	74.7
ZTS-MW141	5/25/2023	N	PM01	2C	Downgradient	5	Alluvium	14.5 - 24.5	0 U	31.7	112.3
ZTS-MW141	8/23/2023	N	PM02	2C	Downgradient	5	Alluvium	14.5 - 24.5	0 U	25	6.1
ZTS-MW141	11/29/2023	N	PM03	2C	Downgradient	5	Alluvium	14.5 - 24.5	0 U	23.8	5.8
ZTS-MW141	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	14.5 - 24.5	0 U	23.5	15.7
ZTS-MW141	5/22/2024	N	PM05	2C	Downgradient	5	Alluvium	14.5 - 24.5	0 U	28.4	60.5
ZTS-MW141	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	14.5 - 24.5	0 U	26.2	57
ZTS-MW142	5/26/2023	N	PM01	2C	Downgradient	5	Alluvium	16.0 - 26.0	0 U	26.8	-0.8
ZTS-MW142	8/24/2023	N	PM02	2C	Downgradient	5	Alluvium	16.0 - 26.0	0 U	24.6	24
ZTS-MW142	11/30/2023	N	PM03	2C	Downgradient	5	Alluvium	16.0 - 26.0	0 U	23	8.1
ZTS-MW142	2/22/2024	N	PM04	2C	Downgradient	5	Alluvium	16.0 - 26.0	0 U	23.9	19
ZTS-MW142	5/24/2024	N	PM05	2C	Downgradient	5	Alluvium	16.0 - 26.0	0 U	24.2	228.6
ZTS-MW142	9/9/2024	N	PM06	2C	Downgradient	5	Alluvium	16.0 - 26.0	0 U	29.4	246.9
ZTS-MW184	5/24/2023	N	PM01	2C	Downgradient	5	Alluvium	16.3 - 26.0	0 U	25.3	68.6
ZTS-MW184	8/22/2023	N	PM02	2C	Downgradient	5	Alluvium	16.3 - 26.0	0 U	25.5	29.5
ZTS-MW184	11/28/2023	N	PM03	2C	Downgradient	5	Alluvium	16.3 - 26.0	0 U	23.8	7.5
ZTS-MW184	2/20/2024	N	PM04	2C	Downgradient	5	Alluvium	16.3 - 26.0	0 U	22.6	15.3
ZTS-MW184	5/23/2024	N	PM05	2C	Downgradient	5	Alluvium	16.3 - 26.0	0 U	26.1	20.6
ZTS-MW184	9/6/2024	N	PM06	2C	Downgradient	5	Alluvium	16.3 - 26.0	0 U	27.6	70.1
ZTS-MW205	5/24/2023	N	PM01	2C	Downgradient	5	UMCf	30.3 - 40.0	0 U	30.7	72.6
ZTS-MW205	8/23/2023	N	PM02	2C	Downgradient	5	UMCf	30.3 - 40.0	0 U	24.7	9.5
ZTS-MW205	11/29/2023	N	PM03	2C	Downgradient	5	UMCf	30.3 - 40.0	0 U	22.1	7.3
ZTS-MW205	2/22/2024	N	PM04	2C	Downgradient	5	UMCf	30.3 - 40.0	0 U	23.1	11.9
ZTS-MW205	5/23/2024	N	PM05	2C	Downgradient	5	UMCf	30.3 - 40.0	0 U	24.6	8.8
ZTS-MW205	9/9/2024	N	PM06	2C	Downgradient	5	UMCf	30.3 - 40.0	0 U	26.6	34.7
ZTS-MW185	5/25/2023	N	PM01	2C	Downgradient	15	Alluvium	15.3 - 25.0	0 U	23.1	107.2
ZTS-MW185	8/24/2023	N	PM02	2C	Downgradient	15	Alluvium	15.3 - 25.0	0 U	24.7	14.8
ZTS-MW185	11/30/2023	N	PM03	2C	Downgradient	15	Alluvium	15.3 - 25.0	0 U	23.7	6.7
ZTS-MW185	2/22/2024	N	PM04	2C	Downgradient	15	Alluvium	15.3 - 25.0	0 U	22.6	68.6
ZTS-MW185	5/24/2024	N	PM05	2C	Downgradient	15	Alluvium	15.3 - 25.0	0 U	23.3	16.5
ZTS-MW185	9/10/2024	N	PM06	2C	Downgradient	15	Alluvium	15.3 - 25.0	0 U	26.5	-123.9
ZTS-MW186	5/25/2023	N	PM01	2C	Downgradient	25	Alluvium	15.3 - 25.0	0 U	24.6	152
ZTS-MW186	8/24/2023	N	PM02	2C	Downgradient	25	Alluvium	15.3 - 25.0	0 U	25.6	14.5
ZTS-MW186	11/30/2023	N	PM03	2C	Downgradient	25	Alluvium	15.3 - 25.0	0 U	23.9	12.8
ZTS-MW186	2/23/2024	N	PM04	2C	Downgradient	25	Alluvium	15.3 - 25.0	0 U	21.1	74
ZTS-MW186	5/24/2024	N	PM05	2C	Downgradient	25	Alluvium	15.3 - 25.0	0 U	24.8	24.1
ZTS-MW186	9/10/2024	N	PM06	2C	Downgradient	25	Alluvium	15.3 - 25.0	0 U	29.5	60.5
LVWPS-MW102A	5/30/2023	N	PM01	2C	Downgradient	30	UMCf	47.0 - 66.6	0 U	24	199
LVWPS-MW102A	8/23/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	0 U	24.5	172.7
LVWPS-MW102A	10/11/2023	N	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	25	767.9
LVWPS-MW102A	10/11/2023	FS	PM02	2C	Downgradient	30	UMCf	47.0 - 66.6	----	----	----
LVWPS-MW102A	12/1/2023	N	PM03	2C	Downgradient	30	UMCf	47.0 - 66.6	0 U	22.6	205.1
LVWPS-MW102A	2/27/2024	N	PM04	2C	Downgradient	30	UMCf	47.0 - 66.6	0 U	22.3	95.7
LVWPS-MW102A	5/23/2024	N	PM05	2C	Downgradient	30	UMCf	47.0 - 66.6	0 U	23.9	178.3
LVWPS-MW102A	9/17/2024	N	PM06	2C	Downgradient	30	UMCf	47.0 - 66.6	0 U	25.5	225.7
LVWPS-MW102B	5/26/2023	N	PM01	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	0.6	27.2	85.5
LVWPS-MW102B	8/23/2023	N	PM02	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	0.2	25.9	350.6
LVWPS-MW102B	12/1/2023	N	PM03	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	0.2	22.8	160.7

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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
									Sulfide	Temperature	Turbidity
						feet			mg/L	C	NTU
LVWPS-MW102B	2/27/2024	N	PM04	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	0.1	21.3	42
LVWPS-MW102B	5/23/2024	N	PM05	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	0.3	29.4	87.7
LVWPS-MW102B	9/17/2024	N	PM06	2C	Downgradient	30	UMCf (Semi-Cons)	76.8 - 96.5	0.2	26.2	292.3
ZTS-MW189	5/25/2023	N	PM01	2C	Downgradient	55	Alluvium	12.8 - 23.0	0 U	24.4	9
ZTS-MW189	8/25/2023	N	PM02	2C	Downgradient	55	Alluvium	12.8 - 23.0	0 U	24.9	11.2
ZTS-MW189	12/1/2023	N	PM03	2C	Downgradient	55	Alluvium	12.8 - 23.0	0 U	23.5	11
ZTS-MW189	2/23/2024	N	PM04	2C	Downgradient	55	Alluvium	12.8 - 23.0	0 U	23.5	12.4
ZTS-MW189	5/24/2024	N	PM05	2C	Downgradient	55	Alluvium	12.8 - 23.0	0 U	24.4	8.9
ZTS-MW189	9/10/2024	N	PM06	2C	Downgradient	55	Alluvium	12.8 - 23.0	0 U	25.9	-186.3
General Vicinity											
Pre-Construction Baseline Results											
ZTS-MW116	9/1/2022	N	BL01	NA	NA	NA	UMCf	33.0 - 48.0	----	27	478.2
ZTS-MW116	10/25/2022	N	BL02	NA	NA	NA	UMCf	33.0 - 48.0	0 U	21.5	36.8
ZTS-MW128	9/1/2022	N	BL01	NA	NA	NA	UMCf	42.0 - 52.0	----	35.2	55.2
ZTS-MW128	10/25/2022	N	BL02	NA	NA	NA	UMCf	42.0 - 52.0	0 U	23.3	41.3
Post-Construction Performance Monitoring Results											
ZTS-MW116	5/24/2023	N	PM01	NA	NA	NA	UMCf	33.0 - 48.0	0 U	23.2	25.3
ZTS-MW116	8/29/2023	N	PM02	NA	NA	NA	UMCf	33.0 - 48.0	0 U	26.4	49.9
ZTS-MW116	12/5/2023	N	PM03	NA	NA	NA	UMCf	33.0 - 48.0	0 U	21.5	37.7
ZTS-MW116	2/27/2024	N	PM04	NA	NA	NA	UMCf	33.0 - 48.0	0 U	24.6	19.4
ZTS-MW116	5/24/2024	N	PM05	NA	NA	NA	UMCf	33.0 - 48.0	0 U	26.9	44.7
ZTS-MW116	9/12/2024	N	PM06	NA	NA	NA	UMCf	33.0 - 48.0	0 U	25.3	24.5
ZTS-MW128	5/24/2023	N	PM01	NA	NA	NA	UMCf	42.0 - 52.0	0 U	26.1	8.8
ZTS-MW128	8/30/2023	N	PM02	NA	NA	NA	UMCf	42.0 - 52.0	0 U	26.3	15.7
ZTS-MW128	12/5/2023	N	PM03	NA	NA	NA	UMCf	42.0 - 52.0	0 U	21.6	208
ZTS-MW128	2/28/2024	N	PM04	NA	NA	NA	UMCf	42.0 - 52.0	0 U	22.8	24.5
ZTS-MW128	5/28/2024	N	PM05	NA	NA	NA	UMCf	42.0 - 52.0	0 U	28	26.6
ZTS-MW128	9/12/2024	N	PM06	NA	NA	NA	UMCf	42.0 - 52.0	0 U	27.9	24.4

Notes:
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 the sample.
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 may or may not be present in the sample.
UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
< The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
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
PM05 Hydrogen samples cancelled with lab due to instrument failure.