

MONTHLY PROGRESS REPORT
For month ending February 28th, 2018

CV-97-0206 (D.N.M)
Albuquerque v. Sparton Technology, Inc.

03/10/2018

Tasks Completed:

- A. Groundwater Monitoring Plan
- The 1Q2018 Ground Water Sampling event was completed with the exception of MW-62. The sampling tool (bailer) used to sample the well was lodged during purging and is currently stuck at the bottom of the well. Rodgers and Co. were scheduled to retrieve the bailer, but their retrieval device also got stuck at the bottom of the well. Further attempts will be made to retrieve the equipment from the bottom of the well. The well will be sampled after it has been returned to normal operation.
- B. Public Involvement Plan
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- C. Deep Flow Zone System
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- D. Assessment of Aquifer Restoration
- Continued the review and analysis of the monitoring data in preparation of the CY2017 Annual Report.
- E. Offsite-Containment System
- The system ran 100.00% of the time and pumped 12,272,389 gallons (an average of 304.4 gpm). There were 0 outages.
 - Collected the monthly influent and effluent samples and measured the water level in the infiltration gallery piezometer.
 - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-69659.
 - The Aqua-Mag tank was replenished twice:
 - o On 2/5 with 23.48 gallons, and
 - o On 2/22 with 26.82 gallons.
- F. Source Containment System
- The system ran 95.43% of the time and pumped 1,670,697 gallons (an average of 41.4 gpm). There were 8 outages:



- On 2/5 for 14 minutes due to a Tank Exchange and Filter Change,
- On 2/20 for 29 hours and 51 minutes due to Rodgers and Co. removing the production pump and cleaning it, as well as acid cleaning and brushing the well casing and screen.
- On 2/21, 3 times, for a total of 16 minutes due to Filter Changes after cleaning of the casing, screen, and pump,
- On 2/22, for 5 minutes due to a Filter Change,
- On 2/24 for 6 minutes due to a Filter Change,
- On 2/26 for 10 minutes due to a Filter Change.
- Collected the monthly influent and effluent samples from the treatment system.
- Continued to operate the chromium removal unit during the entire month and route 27 gpm of the pumped water through the unit and blended with the remainder of the pumped water to meet the New Mexico Water Quality Control Commission chromium standard of 0.050 mg/L in the effluent discharged into the ponds.
- Replaced the first tank of the chromium removal unit on February 5th. Following the modification of the tank exchange frequency to occur every four weeks, no exceedance of the NMWQS in the effluent from the air-stripper was observed.
- Replaced the pretreatment filter for the Chromium Exchange Tanks on February 5th, 21st (three times), 22nd, 24th, and 26th.
- Prior to each Tank Exchange collected chromium samples of (a) the influent to the building; (b) the effluent from the second tank; and (c) the effluent from the air-stripper on tank exchange day.
- The Aqua-Mag Tank was replenished once:
 - On 2/19 with 10.41 gallons.
- On February 20th Rodgers and Co. removed the production pump for CW-2 pump house and took it back to their shop to clean it and put it through a pump test. The results of this work deemed the pump viable. While the pump was being cleaned and tested, Rodgers and Co. proceeded to acid clean and brush the entire well casing and well screen. During this process the steel production lines delivering water from the pump to the well head were mechanically snaked and cleared of iron and manganese buildup. Once the cleaning process was completed the pump was placed back into the well and the well was placed back in operation. During the early operation of the pump, it was determined that at the design rate of 50 gpm, very high pressures were developing in the system. To reduce pressure, the flow rate was increased to 70 gpm, which is within the operating range of the air stripper.
- The pretreatment filter had to be replaced on a frequent basis following the well casing, screen, and pump cleaning event. A massive amount of iron and manganese deposition was released and continued to cause the filter to be plugged and internal system pressures to rise. The system was checked on a frequent basis following the cleaning event and the filter was changed when pressures began to rise outside of normal operating range.
- Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-73531.



G. Other

- All field activities were performed by OEI personnel following standard operating procedures, including health and safety requirements, outlined in the Operation and Maintenance Manuals of the On-Site and Off-Site Containment Systems.

H. Problems Encountered or Anticipated:

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Tasks Planned:

I. Groundwater Monitoring Plan

- MW-62 will be sampled once the equipment currently stuck at the bottom of the well is removed.

J. Public Involvement Plan

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K. Deep Flow Zone System

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L. Assessment of Aquifer Restoration

- Review and analysis of the monitoring data will be continued, in preparation of the CY2017 Annual Report.

M. Offsite-Containment System

- The monthly influent and effluent samples will be collected, and the water level will be measured in the infiltration gallery piezometer.
- The required discharge report will be filed with the Office of the State Engineer.

N. Source Containment System

- The monthly influent and effluent samples will be collected.
- The required discharge report will be filed with the Office of the State Engineer; and
- Tank Exchange chromium sampling of (a) the influent; (b) the effluent from the second tank; and (c) the effluent from the air-stripper will continue.
- The first tank of the Chromium Removal unit will be replaced on March 5th.
- The pretreatment filter will be replaced on an as need basis to account for the loose iron and manganese deposition that is accumulating in the filter after the well casing, screen, and pump cleaning.

O. Other

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P. Problems Encountered or Anticipated:

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By:

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Charles Easterling, PE
Project Coordinator for Sparton.

Cc: Mr. Chuck Hendrickson (EPA: 214-665-7263)
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Dillon Cottingham
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March 10th, 2018

Mr. Charles Palmer
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PE: Permit RG-69659, RG-73531T

Below is the meter report for the month of February 2018. A total of 12,272,389 gallons were treated by the air stripper at CW-1 and discharged via underground pipeline to the infiltration Gallery located in the Calabacillas Arroyo. A total of 1,670,697 gallons were treated by the air stripper at CW-2 and discharged into rapid infiltration pond 2 located northwest of the CW-2 Stripper building.

Date	CW-1		CW-2	
	Meter Reading	Discharge	Meter Reading	Discharge
01/01/2018	139,018,030		20,935,349	
02/01/2018	152,593,682	13,575,652	22,608,190	1,672,841
03/01/2018	164,866,071	12,272,389	24,278,887	1,670,697
Total (YTD)		25,848,041		3,343,538

Thank You,
Sincerely,
Dillon Cottingham, EI
cc: Charles M. Easterling, PE