EA Engineering, Science,
and Technology, Inc., PBC

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09 December 2019

Mr. Charles Palmer
Office of the State Engineer
5550 San Antonio Dr. NE
Albuquerque, New Mexico
Dist1.meterreadings@state.nm.us

RE: Permit RG-69659, RG-73531T

Dear Mr. Palmer:

Below is the meter report for the month of November 2019. A total of 12,514,017 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 2,261,601 gallons were treated by the CW-2 treatment system and discharged into rapid infiltration pond number 2 located northwest of the treatment building.

| Date | CW-1 | | CW-2 | |
|---|---|---|---|---|
| | Meter Reading | Discharge | Meter Reading | Discharge |
| 01/01/2019 | 295,447,549 | 0 | 49,711,675 | 0 |
| 01/31/2019 | 308,931,462 | 13,483,913 | 52,499,571 | 2,787,896 |
| 02/28/2019 | 321,109,136 | 12,177,674 | 54,968,831 | 2,469,260 |
| 03/31/2019 | 334,595,798 | 13,486,662 | 57,719,814 | 2,750,983 |
| 04/30/2019 | 347,652,848 | 13,057,050 | 60,340,229 | 2,620,415 |
| 05/31/2019 | 360,874,980 | 13,222,132 | 62,998,623 | 2,658,394 |
| 06/30/2019 | 373,933,550 | 13,058,570 | 65,496,639 | 2,498,016 |
| 07/31/2019 | 387,411,199 | 13,477,649 | 67,939,652 | 2,443,013 |
| 08/31/2019 | 400,909,982 | 13,498,783 | 70,241,888 | 2,302,236 |
| 09/30/2019 | 413,967,245 | 13,057,263 | 72,612,885 | 2,370,997 |
| 10/31/2019 | 427,462,193 | 13,494,948 | 75,023,174 | 2,410,289 |
| 11/30/2019 | 439,976,210 | 12,514,017 | 77,284,775 | 2,261,601 |
| Total (gallons) | | 144,528,661 | | 27,573,100 |

Thank you,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC., PBC

Bob Marley

Bob Marley
Project Manager

EA Engineering, Science, and Technology, Inc., PBC

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Hazardous Waste Bureau

# MONTHLY PROGRESS REPORT
## For month ending November 30, 2019

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

12/09/2019

***Tasks Completed*:**

A. Groundwater Monitoring Plan
- The 4th quarter groundwater monitoring event was completed, including sampling for 1,4-dioxane.

B. Public Involvement Plan
- None.

C. Deep Flow Zone System
- None

D. Assessment of Aquifer Restoration
- None

E. Offsite-Containment System (CW-1)
- The system operated 95.8 % of the time and pumped 12,514,017 gallons (an average of 289.7 gallons per minute [gpm]). There was one system shutdown:
  - On 11/28/19 for 1,831 minutes due to power outage during large snow storm.
- 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 two times:
  - On 11/11/19 with 24.6 gallons.
  - On 11/26/19 with 22.8 gallons.

F. Source Containment System (CW-2)
- The system ran 95.7 % of the time and pumped 2,261,601 gallons (an average of 52.4 gpm). There was one system shutdown:
  - On 11/28/19 for 1,850 minutes due to power outage during large snow storm.
- Collected the monthly influent and effluent samples from the treatment system.
- Collected chromium samples from (a) the influent to the building; (b) the effluent from the second chromium removal tank; and (c) the effluent from the air-stripper prior to the chromium tank exchange.
- The chromium removal unit operated at a flow rate of approximately 20 gpm.

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- Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-73531.
- The Aqua-Mag tank was replenished once:
    - On 11/06/19 with 13.6 gallons.

G. Other

- All field activities were performed by EA personnel and subcontractors 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:

- Unable to successfully sample Well MW-63 due to the presence of a 1-inch PVC sleeve which prevents use of standard sample collection equipment. A second attempt to retrieve groundwater samples is planned for December using a 2-foot long, 0.675-inch diameter bailer.
- Declining flow rates at CW-2 have been partially resolved through discharge line cleaning and replacement of discharge line ball valves.

## *Tasks Planned:*

I. Groundwater Monitoring Plan

- An attempt to sample well MW-63 for 1,4-dioxane analysis will be made.

J. Public Involvement Plan

- Upon approval of the 2019 Fact Sheet, it will be distributed to residents living above the current plume and along the pipeline to the infiltration gallery.

K. Deep Flow Zone System

- None.

L. Assessment of Aquifer Restoration

- None.

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.
- The first tank of the chromium removal unit is scheduled for replacement on 12/05/19.

- Prior to the tank exchange, chromium samples will be collected from (a) the influent to the building; (b) the effluent from the second chromium removal tank; and (c) the effluent from the air-stripper.
- The pretreatment filter will be replaced on an as need basis as pressure rises or flow is reduced in the chromium removal system.
- Declining pump performance will continue to be closely monitored to determine the appropriate time to implement well rehabilitation measures.

O. Other
- None.

P. Problems Encountered or Anticipated:
- None.

By:

Bob Marley

Bob Marley
EA Project Manager on behalf of Sparton

Cc: Mr. Chuck Hendrickson (EPA: 214-665-7263)
Mr. Dave Cobrain (NMED: 505-476-6030)