

**MONTHLY PROGRESS REPORT**  
For month ending July 31<sup>st</sup>, 2016

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

08/10/16

***Tasks Completed:***

- A. Groundwater Monitoring Plan
- Revisions were made to the RCRA Post-Closure Permit Renewal Application in response to comments received from NMED, and the revised application was re-submitted to the agency.
  - Planned and Prepared for the 3<sup>rd</sup> Quarter Sampling Event
- B. Public Involvement Plan
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- C. Deep Flow Zone System
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- D. Assessment of Aquifer Restoration
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- E. Offsite-Containment System
- The system ran 97.66% of the time and pumped 13,756,400 gallons (an average of 306.1 gpm). There was one outage:
    - o Due to an unknown reason from 7/19 to 7/20 for a total of 1,050 minutes.
  - Collected the monthly influent and effluent samples, and measured the water level in the infiltration gallery.
  - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-69659.
- F. Source Containment System
- The system ran 99.96% of the time and pumped 2,221,300 gallons (an average of 49.3 gpm). There was one outage:
    - o For a chromium tank exchange on 7/18 for 18 minutes.
  - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-73531.
  - Collected the monthly influent and effluent samples from the treatment system.
  - Operated the chromium removal unit during the entire month. Continued to route 70% (35 gpm) of the pumped water through the unit and blend it with the remainder



of the pumped water to meet the New Mexico Water Quality Control Commission (NMWQCC) chromium standard of 0.050 mg/L in the effluent discharged into the ponds.

- Replaced the first tank from the chromium removal unit on July 18<sup>th</sup>.
- Replaced the pretreatment filter for the Chromium Exchange tanks on July 5<sup>th</sup> and July 18<sup>th</sup>.
- 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; July 18<sup>th</sup>.

G. Other

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***Tasks Planned:***

H. Groundwater Monitoring Plan

- Update RCRA Post-Closure Permit Renewal Application, addressing comments from the agencies, and resubmit for approval.
- The 3<sup>rd</sup> Quarter water level measurement will begin on August 1<sup>st</sup>.
- The 3<sup>rd</sup> Quarter Water Quality Sampling will begin on August 3<sup>rd</sup>.

I. Public Involvement Plan

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J. Deep Flow Zone System

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K. Assessment of Aquifer Restoration

- Review and analyses of monitoring data in preparation of the CY2016 annual report.

L. 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 monitoring system will continue to be repaired and upgraded.
- The required discharge report will be filed with the Office of the State Engineer.

M. 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 August 8<sup>th</sup> and August 29<sup>th</sup>.
- The pretreatment filter will be replaced on August 1<sup>st</sup>, August 15<sup>th</sup>, and August 29<sup>th</sup>.



N. Other

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O. Problems Encountered or Anticipated:

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By:

Dillon Cottingham, EI  
Engineering Technician for Sparton

Charles Easterling, PE  
Project Coordinator for Sparton.

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



Dillon Cottingham  
6100 Seagull Street NE  
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August 10<sup>th</sup>, 2016

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

PE: Permit RG-69659, RG-73531T

Below is the meter report for the month of July 2016. A total of 13,756,400 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 2,221,300 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
12/30/2015	375,487,900		46,645,600	
02/01/2016	389,780,400	14,292,500	48,748,400	2,102,800
03/01/2016	402,374,700	12,594,300	50,882,800	2,134,400
04/01/2016	415,508,400	13,133,700	53,194,700	2,311,900
05/02/2016	428,995,900	13,487,500	55,432,800	2,238,100
06/01/2016	441,568,400	12,572,500	57,622,900	2,190,100
07/01/2016	452,743,900	11,175,500	59,777,400	2,154,500
08/01/2016	466,500,300	13,756,400	61,998,700	2,221,300
<b>Total</b>		91,012,400		15,353,100

Thank You,  
Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE

### Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 7 <sup>th</sup>		AIR STRIPPERS											AQUA-MAG		
YEAR: 2016															
Date	Time	System Status: On/OFF	Stripper Alarms	Blower Pressure (H <sub>2</sub> O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Rate (sec/100gal)	Pump Flow Rate (gpm)	Discharge Rate (min/in)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)	P2-G H <sub>2</sub> O Level (ft)	Tech Initials
1 <sup>st</sup>	10:15	ON	NO	26.0	31.0	16.0	452,743,900	19.30	310.7	1/3 in	290	18.75	2/3	23.00	JD
5 <sup>th</sup>	8:30	ON	NO	26.0	32.0	16.5	454,502,100	19.00	315.8	1/3 in	225/450	16.25	2/3		JD
11 <sup>th</sup>	8:00	ON	NO	26.0	30.0	15.0	457,210,300	19.19	312.7	1/2 in	340/450	18.33	1/3		JD
14 <sup>th</sup>	3:00	ON	NO	25.5	30.0	15.0	458,698,100	19.06	314.8	1/2 in	400	16.66	1/3		JD
18 <sup>th</sup>	10:50	ON	NO	26.0	30.0	15.5	460,413,200	19.18	312.7	1/3 in	335	16.25	10/3		JD
20 <sup>th</sup>	12:20	ON	NO	26.0	30.0	15.0	461,019,700	19.03	314.9	1/2 in	310	12.50	10/3		JD
25 <sup>th</sup>	9:00	ON	NO	26.0	30.0	15.0	463,213,800	19.25	310.7	1/3 in	220/450	18.0	6 1/4		JD
28 <sup>th</sup>	2:00	ON	NO	25.5	30.0	15.0	464,665,100	19.22	310.7	1/3 in	390	20.0	6		JD
1 <sup>st</sup>	3:20	ON	NO	25.5	30.0	15.0	466,500,300	19.19	312.7	1/3 in	315	18.75	6	22.95	JD

Discharge = 6000 / ((Sec/100gal) - gpm)

(Gallons between readings \* 24 Hours) / (Hours between readings) = Chemical Consumption = 20 gallons/day

(Gallons needed to fill tank \* 7.6 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Aqua Mag Top Off		
Date	Time	Gallons of A M
7/5/16	8:30	17.1
7/11/16	8:15	8.4
7/25/16	9:15	17.5

1 inch = 1.71875 gallons of Aqua Mag

ALARMS	
A-1	High Sump
A-2	Air stripper High Sump
A-3	Gallery High
A-4	Pump Off
A-5	Blower Pressure Low

Collected Samples		
Type	Date	Time
Monthly Metals	9 <sup>th</sup>	10:30



**Sparton Technology Inc, CW-2 Operation and Maintenance Log**

MONTH:	YEAR:	Date	Time	AIR STRIPPERS					INFILTRATION				AQUA-MAG			Tech Initials			
				System Status: On/Off	Stripper Alarms	Blower Pressure (H2O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Rate (Sec/50gal)	Pump Flow Rate (gpm)	Discharge Rate (in/hr)	Chromium Tank Flow Rate (gpm)	Pond #2 Accumulation	Pond #3 Accumulation		Chemical Tank Volume (gal)	Consumption (gal/day)	Stock barrels
		1 <sup>st</sup>	9:20	ON	NO	24.0	38.5	28.5	57,777,400	58.74	50.1	1/2 in	36.50	19,534,900	21,800,800	450	10.0	2 1/2	JD
		5 <sup>th</sup>	7:30	ON	NO	24.0	38.0	29.0	60,054,900	58.94	50.9	1/2 in	36.50	19,505,700		420	7.5	2 1/3	JD
		11 <sup>th</sup>	7:30	ON	NO	24.0	38.0	30.0	60,495,700	59.25	50.6	1/2 in	37.75	20,216,800		385	10.8	2 1/3	JD
		14 <sup>th</sup>	1:00	ON	NO	23.5	35.0	25.0	60,712,500	61.91	46.5	1/2 in	35.90	20,448,200		315	13.3	2 1/3	JD
		18 <sup>th</sup>	8:15	ON	NO	24.0	36.5	23.5	60,980,100	58.47	51.3	1/2 in	35.31	20,709,900		280	8.75	2 1/2	JD
		18 <sup>th</sup>	10:45	ON	NO	24.0	33.0	24.0	60,726,700	58.25	51.4	1/2 in	36.38	20,716,300		280		4 1/3	JD
		25 <sup>th</sup>	7:55	ON	NO	24.0	32.0	24.0	61,499,900	60.66	49.5	1/2 in	35.90	21,188,600		200	11.4	4 1/3	JD
		28 <sup>th</sup>	3:30	ON	NO	24.0	32.0	23.0	61,712,700	57.65	50.2	1/2 in	36.14	21,466,200		170	10.0	4 1/3	JD
		9 <sup>th</sup>	3:50	ON	NO	24.0	32.0	23.0	61,998,700	61.38	46.9	1/2 in	36.38	21,705,700	21,800,600	125	11.25	4 1/3	JD

Discharge = 3000 (Sec/50gal) = gpm  
 (Gallons between readings + 24 Hours) / (Hours between readings) = Chemical Consumption  
 (Gallons needed to fill tank + 4.1 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Chromium Tank Exchange	Time	Left/Right
7/18/16	9:57	Right

Aqua Mag Top Off		Gallons of AM
Date	Time	
1 <sup>st</sup>	9:25	14.76

ALARMS	
A-1	Blow/Wall Pil/Aqua-Mag Jump
A-2	Air Stripper Sump
A-3	Pond #6
A-4	Pump Off
A-5	Blower Pressure Low

Influent Filter	
Date	Time
7/15/16	8:00
7/18/16	9:57

Collected Samples		
Type	Date	Time
Monthly Metals	1	8:50
Chromium Exchange	18	8:20

1 inch = 1.71875 gallons of Aqua Mag

