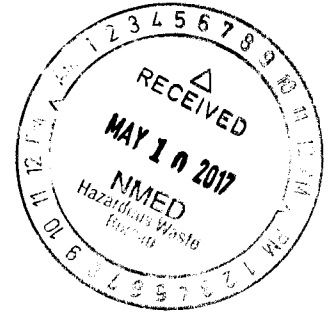


MONTHLY PROGRESS REPORT  
For month ending April 30<sup>th</sup>, 2017

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

05/10/2017



**Tasks Completed:**

A. Groundwater Monitoring Plan

-

B. Public Involvement Plan

-

C. Deep Flow Zone System

-

D. Assessment of Aquifer Restoration

- Continued review and analysis of the monitoring data in preparation of the CY2016 Annual Report.

E. Offsite-Containment System

- The system ran 99.00% of the time and pumped 12,020,642 gallons (an average of 298.7 gpm). There were four outages, all associated with the installation of the new monitoring system:
  - o On the 4<sup>th</sup> for 3 hours and 5 minutes to install the conduit for the camera system;
  - o On the 5<sup>th</sup> for 1 hour and 32 minutes to install the monitoring cameras;
  - o On the 12<sup>th</sup> for 18 minutes to reset the monitoring system; and
  - o On the 21<sup>st</sup> for 1 hour and 26 minutes to fix inconsistencies in the flow rates reported by the monitoring system from the new Octave flow meter.
- 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.
- Continued work on the installation of the new monitoring system:
  - o Modified the system to get rid of all bugs and make it fully operational with all tracked values being reported accurately;
  - o Installed the emergency light and tested it to make sure it is operating correctly; and



- Installed the safety camera system; the system is not yet active.

#### F. Source Containment System

- The system ran 90.57% of the time and pumped 1,811,671 gallons (an average of 45.0 gpm). There were five outages:
  - On 4/3/17 for 22 hours and three minutes to relocate the discharge line to Pond 2;
  - On 4/4/17 for 1 hour and 39 minutes to replace the flow meter on the influent line to the chromium removal unit;
  - On 4/17/17 for 15 minutes for the tank exchange at the chromium removal unit;
  - On 4/19/17 for 1 hour and 58 minutes to reduce noise during telephone troubleshooting the internet service with CenturyLink, the Site's internet provider; and
  - On 4/29/17 for 37 hours and 27 minutes due to a PNM power failure.
- 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 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 chromium standard of 0.050 mg/L in the effluent discharged into the ponds.
- Replaced the first tank of the chromium removal unit on April 17<sup>th</sup>.
- Replaced the pretreatment filter for the Chromium Exchange Tanks on April 10<sup>th</sup>.
- Collected samples for chromium analysis from (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.
- Replaced the damaged internet (CenturyLink) data cable by a new suspension line from the Northwest corner of the Melloy Dodge building to the source containment system treatment building.
- Continued work on the installation of the new monitoring system:
  - The emergency light was installed and is fully operational; and
  - The camera system was installed, but not yet activated.
- The discharge point for Pond 2 was relocated to the Northwest corner of the designated ponding area (previously it discharged at the Southwest corner of the designated ponding area).

#### G. Other

- Started working on a renewal application for Discharge Permit DP-1184, which regulates the discharge of the treated water to the infiltration gallery and ponds and which expires on October 18, 2017.



### ***Tasks Planned:***

#### **H. Groundwater Monitoring Plan**

- The 2Q2017 ground water level measurements and sampling will start on the 1<sup>st</sup> and is expected to take two business weeks.

#### **I. Public Involvement Plan**

-

#### **J. Deep Flow Zone System**

-

#### **K. Assessment of Aquifer Restoration**

- Continue the 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 required discharge report will be filed with the Office of the State Engineer.
- The safety camera system will be activated and brought on line to allow for visual remote monitoring of personnel on site for safety concerns.

#### **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 May 8<sup>th</sup> and May 30<sup>th</sup>.
- The pretreatment filter will be replaced on May 8<sup>th</sup> and May 22<sup>nd</sup>.
- The safety camera system will be activated and brought on line to allow for visual remote monitoring of personnel on site for safety concerns.
- The monitoring system is scheduled to be activated on Monday, May 15<sup>th</sup> with Timberline Electric and Controls.

#### **N. Other**

- The renewal application for Discharge Permit DP-1184 will be completed and submitted to NMED, Ground Water Quality Bureau.

#### **O. Problems Encountered or Anticipated:**

-



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  
 Albuquerque, NM 87109

May 10<sup>th</sup>, 2017

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 April 2017. A total of 12,020,642 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 1,811,671 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
01/03/2017	530,292,100		73,153,900	
02/01/2017	543,089,000	12,796,900	75,242,800	2,088,900
02/13/2017	547,741,600	4,652,600	75,964,600	721,800
02/13/2017	0	<b>New Meter</b>	0	<b>New Meter</b>
03/01/2017	6,724,145	11,376,745	1,090,874	1,812,674
04/03/2017	21,099,188	14,375,043	3,405,652	2,314,778
05/01/2017	33,119,830	12,020,642	5,217,323	1,811,671
<b>Total</b>		50,569,330		8,028,023

Thank You,  
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE



Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 4		AIR STRIPPERS								AQUA-MAG			MOTORS		P2-G H <sub>2</sub> O Level (ft)	Tech Initials
YEAR: 17		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)	Discharge Rate (min/in)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)	Blower Motor Temperature °	Discharge Motor Temperature °		
3 <sup>rd</sup>	9:24	ON	NO	25	37.5	19.0	21099188	307.7	1/3 inch	151	20.7	3 1/2	91.5	120.2 <sup>R</sup>	23.05	C.C
5 <sup>th</sup>	10:56	ON	NO	25.0	37.5	19.5	21,888,161	302.2	1/3 inch	410	20.0	3 1/4	73.1	68.7 <sup>NR</sup>		CC
10 <sup>th</sup>	8:00	ON	NO	25.1	37.0	19.0	24016,148	301.1	1/3 inch	299	22.2	3 1/4	91.7	128.4 <sup>R</sup>		CC
15 <sup>th</sup>	7:00	ON	NO	25.0	37.0	18.5	25736946	301.9	1/3 inch	<del>262</del>	<del>19.4</del>	3 1/4	96.2	136.2 <sup>R</sup>		CC
17 <sup>th</sup>	9:40	ON	NO	25.0	37.5	18.3	27084473	302.5	1/3 inch	<del>252</del>	<del>error</del>	3 1/4	104.2	136.5 <sup>R</sup>		CC
19 <sup>th</sup>	8:00	ON	NO	25.0	37.5	18.6	27905764	301.7	1/3 inch	412	20.0	2 1/2	103.5	137.8 <sup>R</sup>		CC
21 <sup>st</sup>	11:00	ON	NO	25.0	37.0	18.3	29815681	302.7	1/3 inch	374	19.0	2 1/2	103.0	132.8 <sup>NR</sup>		CC
24 <sup>th</sup>	8:00	ON	NO	25.0	37.0	18.5	30965637	302.8	1/3 inch	312	20.6	2 1/2	97.0	127.9 <sup>NR</sup>		CC
38 <sup>th</sup>	8:00	ON	NO	25.0	38.0	18.5	31811671	302.6	1/3 inch	230	20.5	2 1/2	97.4	131.1 <sup>R</sup>		CC
5-17	8:10	ON	NO	25.0	36.5	18.5	33119830	303.1	1/3 inch	169	20.3	2 1/2	95.6	127.5 <sup>R</sup>	23.00	CC

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

Collected Samples		
Type	Date	Time
Monthly Metals	5-17	9:20

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

Aqua Mag Top Off			
Date	Time	Gallons of A-M	Inches of A-M
4-3	9:25	22.72	13.2
4-17	12:05	39.47	22.9
5-1	8:20	19.95	11.6

1 inch = 1.71875 gallons of Aqua Mag





Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 4		YEAR: 2017		AIR STRIPPERS						INFILTRATION			AQUA-MAG			MOTORS		Tech Initials
Date	Time	System Status On/Off	Stripper Alarms	Blower Pressure (H2O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Flow Rate (gpm)	Discharge Rate (min/in)	Chromium Tank Flow Rate (gpm)	Pond #2 Accumulation	Pond #3 Accumulation	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock Barrels	Blower Motor Temperature °F	Discharge Motor Temperature °F	
4-3	8:30	ON	NO	25.0	29.8	25.0	3405652	50.6	3/4 inch	35.55	3377797	175	37.5	10.7	2 1/3	79.1	97.1 <sup>R</sup>	CC
4-4	8:42	ON	NO	25.0	29.8	26.5	3412590	50.6	3/4 inch	37.08	3384509	175	37.5	10.7	2 1/3	78.2	93.2 <sup>UR</sup>	CC
4 <sup>th</sup>	11:27	ON	NO	24.5	29.0	26.5	3420862	50.6	3/4 inch	36.96	3392610	175	37.6		2 1/3			CC
4 <sup>th</sup>	1:00	ON	NO	24.5	29.0	25.0	3421212	50.6	3/4 inch	37.19	3392677	175	37.2		2 1/3	87.0	80.6 <sup>R</sup>	CC
5 <sup>th</sup>	8:00	ON	NO	25.0	30.0	26.5	3416263	48.75	3/4 inch	36.95	3447940	175	36.1	8.0	2 1/3	84.9	117.7 <sup>UR</sup>	CC
11 <sup>th</sup>	6:30	ON	NO	25.0	30.0	24.5	3884789	50.6	3/4 inch	35.16	3503052	175	30.5	11.8	2 1/3	89.7	106.6 <sup>R</sup>	CC
12 <sup>th</sup>	8:30	ON	NO	25.0	29.0	24.0	3975215	50.6	3/4 inch	35.64	3942355	175	28.3	11.0	2 1/3	90.0	118.8 <sup>R</sup>	CC
14 <sup>th</sup>	8:30	ON	NO	25.0	29.0	24.5	4119734	48.75	3/4 inch	35.48	4085338	175	26.1	11.0	2 1/3	90.6	118.2 <sup>UR</sup>	CC
17 <sup>th</sup>	8:00	ON	NO	25.0	29.0	24.0	4333980	50.6	3/4 inch	35.75	4297894	175	22.7	11.3	2 1/3	92.3	119 <sup>R</sup>	CC
19 <sup>th</sup>	8:30	ON	NO	25.0	26.5	24.8	4474562	50.6	3/4 inch	35.52	4437229	175	20.6	10.5	2 1/3	90.4	107.4 <sup>R</sup>	CC
21 <sup>st</sup>	10:00	ON	NO	25.0	26.0	24.8	4619252	50.6	3/4 inch	35.28	4580491	175	18.4	11.0	2 1/3	94.3	118.6 <sup>R</sup>	CC
24 <sup>th</sup>	7:00	ON	NO	25.0	24.0	22.2	4826752	50.6	3/4 inch	35.52	4786112	175	15.2	10.6	2 1/3	87.6	108.6 <sup>UR</sup>	CC
26 <sup>th</sup>	9:30	ON	NO	25.0	22.5	21.0	4976522	50.6	3/4 inch	35.28	4934159	175	13.0	11.0	2 1/3	86.4	118.4 <sup>UR</sup>	CC
28 <sup>th</sup>	7:15	ON	NO	25.0	22.3	21.0	5114880	46.875	3/4 inch	35.28	5070892	175	42.6	12.0	178	86.0	116.0 <sup>UR</sup>	CC

Discharge = Accumulation Difference \* 60 / 32 = gpm

(Gallons between readings \* 24 Hours) / (Hours between readings) = Chemical Consumption = 10 gallons/day

(Gallons needed to fill tank \* 4.1 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Chromium Tank Exchange		
Date	Time	Left/Right
4-17	8:48	R

Aqua Mag Top Off		
Date	Time	Gallons/Inches of Aqua Mag
4-26	7:50	200 / 7.6 inches

ALARMS	
A-1	Bldg/Well Pit/Aqua-Mag Sump
A-2	Air stripper Sump
A-3	Pond #6
A-4	Pump Off
A-5	Blower Pressure Low

Influent Filter	
Date	Time
4-10	8:45

Collected Samples		
Type	Date	Time
Monthly Metals	3	8:40
Chromium Exchange	17	8:20
Chromium Exchange		

1 inch = 1.71875 gallons of Aqua Mag

