

MONTHLY PROGRESS REPORT
For month ending May 31st, 2017

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

06/09/2017

Tasks Completed:

- A. Groundwater Monitoring Plan
- The 2Q2017 Ground Water Sampling Event was successfully completed.
- B. Public Involvement Plan
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- C. Deep Flow Zone System
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- 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 100.00% of the time and pumped 13,546,338 gallons (an average of 302.6 gpm). There were 0 outages:
 - 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.
 - The safety camera system has been installed but is not currently active.
- F. Source Containment System
- The system ran 96.81% of the time and pumped 2,139,168 gallons (an average of 47.9 gpm). There were two outages:
 - o On 5/8 for 23 hours and 25 minutes due to a tank exchange, filter change, and a gasket repair on the Air Stripper that required a setting time.
 - o On 5/30 for 20 minutes due to a tank exchange and a filter change.
 - 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 May 8th and May 30th.
- Replaced the pretreatment filter for the Chromium Exchange Tanks on May 8th and May 30th.
- 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 safety camera system has been brought up and is recording video however the remote view capability is not yet accessible.

G. Other

- The renewal application for Discharge Permit DP-1184 was submitted to NMED, Ground Water Quality Bureau, on May 4th.

Tasks Planned:

H. Groundwater Monitoring Plan

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I. Public Involvement Plan

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J. Deep Flow Zone System

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K. Assessment of Aquifer Restoration

- The CY2016 Annual Report will be completed and submitted it to the agencies.

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 June 19th.



- The pretreatment filter will be replaced on June 19th.
- The safety camera system will be troubleshot to allow for remote viewing.

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)

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: MAY																		
YEAR: 17		AIR STRIPPERS							INFILTRATION				AQUA-MAG			MOTORS		Tech Initials
Date	Time	System Status: On/Off	Stripper Alarms	Blower Pressure (HzO)	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)	Stack barrels	Blower Motor Temperature °F	Discharge Motor Temperature °F	Tech Initials
5-1-17	7:10	off	A-1, A-2, A-3				5217,323				572,150		408	/	1 1/4			CC
5/1	7:40	ON	NO	25.0	22	20.5	5218318	50.6	1/2 inch	37.90	5173152	175	408	/	1 1/4	81.9	96.3 ^R	CC
5/5	10:15	ON	NO	25.0	22	20.5	5514114	50.6	1/2 inch	33.36	5465878	175	362	11.5	1 1/4	93.2	124.3 ^R	CC
5/8	7:40	ON	NO	25.0	22	21	5724120	50.6	1/2 inch	34.45	5673639	175	330	10.6	1 1/4	85.1	116.4 ^R	CC
5/9	8:15	ON	NO	25.0	22	20.5	5728839	50.6	1/2 inch	35.16	5676876	175	330	/	1 1/4	86.4	104.4 ^R	CC
5/12	7:15	ON	NO	25.0	24	21.0	5938640	50.6	3/4 inch	35.16	5885655	175	300	10.0	1 1/8	91.8	121.1 ^{MR}	CC
5/15	7:30	ON	NO	24.8	22.5	21.5	6152964	50.6	1/2 inch	35.16	6093381	175	267	11.0	1 1/8	93.3	116.2 ^{MR}	CC
5/19	7:36	ON	NO	25.0	24	21	6436956	48.75	3/4 inch	35.16	6377761	175	227	10.0	1 1/8	86.7	120.3 ^R	CC
5/22	7:15	ON	NO	25.0	22	21	6648072	48.75	1/2 inch	34.80	6586137	175	198	9.6	1 1/8	91.3	119.4 ^R	CC
5/30	7:15	ON	NO	25.0	22	20	7215241	48.75	1/2 inch	35.28	7142868	175	120	9.75	1 1/8	87.0	115.5 ^R	CC
5/30	9:30	ON	NO	25.0	20	17.5	7216401	50.6	1/2 inch	34.80	7146434	175	120	9.75	1 1/8	88.1	97.1	CC
6/1	8:50	ON	NO	25.0	20	16.5	7356491	50.6	1/2 inch	34.45	7284091	175	429	10.5	1 1/3	93.8	117.8 ^R	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
5-30-17	9:00	Left Right
5/8/17	9:00	Left

Aqua Mag Top Off		
Date	Time	Gallons/Inches of Aqua Mag
5-30-17	8:30	13.53 / 7.872

ALARMS	
A-1	Blow/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
5-8-17	8:00
5-30-17	8:30

Collected Samples		
Type	Date	Time
Monthly Metals	5-1-17	9:30
Chromium Exchange	5-8-17	9:15
Chromium Exchange		

1 inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 5 th		AIR STRIPPERS											AQUA-MAG			MOTORS		PS-D H ₂ O Level (ft)	Tech Initials
YEAR: 2017		Date	Time	System Status: On/Off	Stripper Alarms	Blower Pressure (H ₂ O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Rate (sec/100gal)	Discharge Rate (min/m)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)	Blower Motor Temperature °	Discharge Motor Temperature °			
3 rd	8:10	ON	NO	25.0	36.5	18.5	33,119,830	303.1	1/8" inch	169	20.3	2 1/2	95.6	127.5 ^R	23.00	JW			
5/8/17	6:30	ON	NO	24.5	36.5	18.0	36,265,262	302.9	1/8" inch	298	21.7	2 1/8	110.6	140.1 ^R		C.C.			
5/15	7:15	ON	NO	25.0	36.5	18.0	39,205,741	302.7	1/8" inch	761	19.57	2 1/8	103.5	131.1 ^R		C.C.			
6/22	7:40	ON	NO	25.0	37.0	18.2	42,262,070	302.3	1/8" inch	355	23.95	1 2/3	102.4	129.2 ^R		C.C.			
7/30	9:50	ON	NO	24.9	37.1	17.7	45,785,945	301.2	1/8" inch	193	20.25	1 2/3	105.8	132.9 ^R		C.C.			
										155									
6/1	10:20	ON	NO	24.5	37.0	19.9	46,666,169	302.1	1/8" inch	155	19.0	1 2/3	106.1	135.2 ^R	22.98	C.C.			

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	Inches of A-M
5-18-17	7:30	25.308	14.72

1 inch = 1.71875 gallons of Aqua Mag

Collected Samples		
Type	Date	Time
Monthly Metals	6-1-17	10:30

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



Dillon Cottingham
 6100 Seagull Street NE
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June 9th, 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 May 2017. A total of 13,546,338 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 2,139,168 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	New Meter	0	New Meter
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
06/01/2017	46,666,168	13,546,338	7,356,491	2,139,168
Total		64,115,668		10,167,191

Thank You,
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE