



MONTHLY PROGRESS REPORT For month ending October 31st, 2017

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

11/10/2017

Tasks Completed:

- A. Groundwater Monitoring Plan
 - The 4Q2017 sample kits were ordered and verified.

- B. Public Involvement Plan
 -

- C. Deep Flow Zone System
 -

- D. Assessment of Aquifer Restoration
 -

- E. Offsite-Containment System
 - The system ran 100.00% of the time and pumped 13,593,626 gallons (an average of 304.5 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.

- F. Source Containment System
 - The system ran 99.95% of the time and pumped 1,964,125 gallons (an average of 44.0 gpm). There was 1 outage:
 - o On 10/16 for 22 minutes due to a Tank Exchange and 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.
 - 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 October 16th. 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 October 16th.
- 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.

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:

-

Tasks Planned:

I. Groundwater Monitoring Plan

- The 4Q2017 Sampling event will begin on November 1st.

J. Public Involvement Plan

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K. Deep Flow Zone System

-

L. Assessment of Aquifer Restoration

-

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 November 13th.
- The pretreatment filter will be replaced on November 13th.



O. Other

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P. 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
 Albuquerque, NM 87109

November 10th, 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 October 2017. A total of 13,593,626 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 1,964,318 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
07/01/2017	58,697,913	12,031,745	9,320,616	1,964,125
08/01/2017	72,242,397	13,544,484	11,415,960	2,095,344
09/01/2017	85,774,467	13,532,070	13,480,629	2,064,669
10/01/2017	98,944,064	13,169,597	15,461,362	1,980,733
11/01/2017	112,537,690	13,593,626	17,425,680	1,964,318
Total		129,987,190		20,236,380

Thank You,
 Sincerely,

Dillon Cottingham, EI
 cc: Charles M. Easterling, PE

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: OCT																
YEAR: 17		AIR STRIPPERS							AQUA-MAG			MOTORS				
Date	Time	System Status: On/Off	Stripper Alarms	Blower Pressure (HzO)	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 °F	Discharge Motor Temperature °F	PZ-G HzO Level (ft)	Tech Initials
2 nd	1:24	ON	NO	24.0	35.0	17.5	99,645,320	305.1	1/2 inch	355	19.0	8	107.0	1423 R	22.98	C.C.
9 th	11:05	ON	NO	24.0	35.2	17.5	2675,230	304.6	3/8 inch	215	20.0	8	102.2	1328 R		
16 th	10:05	ON	NO	25.0	36.0	18.0	5728,308	305	3/8 inch	407	21.5	7 1/2	98.5	127.5 R		C.C.
23 rd	1:15	ON	NO	24.5	35.5	18.0	8854,329	304.5	3/8 inch	246	23.0	7 1/2	104.8	135.0 R		C.C.
30 th	8:15	ON	NO	24.5	36.0	18.5	11,829,171	304.1	1/2 inch	108	19.71	7 1/2	93.0	123.6 R		C.C.
11-17	3:31	ON	NO	25.0	35.0	17.5	12838,782	304.2	1/2 inch	399	25.5	7 1/2	102.1	134.9 R	23.0	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

Collected Samples		
Type	Date	Time
Monthly Metals	10-2	1:30

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

Aqua Mag Top Off			
Date	Time	Gallons of A-M	Inches of A-M
10-14-17	10:25	337	25.64
			14.90
10-31-17	8:20	342	15.12

1 inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: <u>Oct</u>																		
YEAR: <u>17</u>		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)	Stock barrels	Blower Motor Temperature °F	Discharge Motor Temperature °F	Tech Initials
10-2	7:40	ON	NO	25.0	15.5	14.0	15,547,316	46,285	3/4 inch	27.05	15,547,316	197,917	403	11.75	2 1/4	87.9	99.9 ^{MR}	C.C.
9 th	11:30	ON	NO	25.0	15.5	14.1	16,009,473	45,000	3/4 inch	27.17	15,465,590	207,108	318	12.14	2 1/4	92.0	115.1 ^R	C.C.
16 th	7:35	ON	NO	25.0	17.5	15.0	16,444,935	43,125	3/4 inch	27.17	15,882,761	207,108	238	11.42	2 1/4	86.5	111.7 ^{MR}	C.C.
23 rd	12:30	ON	NO	25.0	15.5	12.5	16,896,770	43,125	3/4 inch	27.05	16,316,899	207,108	160	11.14	2 1/4	97.7	118.8 ^R	C.C.
30 th	7:40	ON	NO	25.0	15.5	13.0	17,321,672	43,125	3/4 inch	27.29	16,725,038	207,108	364	12.28	2 1/2	82.9	100.2 ^R	C.C.
11-1-17	2:50	ON	NO	25.5	15.5	12.5	17,464,072	43,125	3/4 inch	27.65	16,862,012	207,108	336	14.00	2 1/2	92.7	113.3 ^{MR}	C.C.

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
16 th	9:00	R

Aqua Mag Top Off		
Date	Time	Gallons/Inches of Aqua Mag
10-23-17	12:45	290 / 6.91

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
10-16-17	9:00

Collected Samples		
Type	Date	Time
Monthly Metals	10-2	11:53
Chromium Exchange	11-1	2:52
Chromium Exchange		

1 inch = 1.71875 gallons of Aqua Mag

