

MONTHLY PROGRESS REPORT
For month ending September 30th, 2017

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

10/10/2017

Tasks Completed:

- A. Groundwater Monitoring Plan
-
- 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 13,169,597 gallons (an average of 304.9 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 99.97% of the time and pumped 1,980,733 gallons (an average of 45.9 gpm). There was 1 outage:
 - o On 9/18 for 14 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 September 18th. 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 September 18th.
- 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

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H. Problems Encountered or Anticipated:

- Pond 2 experienced a berm failure during the rainfall event that lasted from September 22nd to the 23rd. On October 2nd the berm will be repaired to manage and control effluent discharge.

Tasks Planned:

I. Groundwater Monitoring Plan

- The 4th Quarter sampling kits will be ordered from H.E.A.L.

J. Public Involvement Plan

-

K. Deep Flow Zone System

-

L. Assessment of Aquifer Restoration

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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 October 16th.
- The pretreatment filter will be replaced on October 16th.



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

October 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 September 2017. A total of 13,169,597 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 1,980,733 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
Total		116,393,564		18,272,062

Thank You,
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: Sep		YEAR: 17		AIR STRIPPERS						INFILTRATION			AQUA-MAG			MOTORS		Tech Initials
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 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
1 st	9:06	ON	NO	25.0	17.0	13.0	13,506,790	46,875	1/2 inch	27.79	13,276,190	175	369	11.5	2 1/2			TD
11 th	1:00	ON	NO	25.0	14.5	12.5	14,182,915	46,875	3/4 inch	27.29	13,928,776	175	256	11.3	2 1/2	89.5	108	CC
18 th	7:30	ON	NO	25.0	16.0	13.5	14,638,614	45,000	1/2 inch	27.05	14,357,942	175	371	11.3	2 1/3	89.0	109.3	CC
18 th	9:15	ON	NO	26.5	16.0	13.0	14,632,691	45,000	1/2 inch	27.05	14,361,822	175	369	11.3	2 1/3	90.1	108.1	CC
25 th	11:00	ON	NO	24.5	15.5	14.0	15,099,512	46,285	3/4 inch	27.17	14,807,558	175	287	11.7	2 1/3	92.8	108.2	CC
10-27	7:40	ON	NO	25.0	15.5	14.0	15,547,316	46,285	1/2 inch	27.05	15,547,316	197,917	403	11.75	2 1/4	87.9	99.9	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
9-18	9:00	L

Aqua Mag Top Off		
Date	Time	Gallons/Inches of Aqua Mag
9-1-17	1:05	194 - 4.67
9-28-17	10:00	196 - 4.67

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
9-18	8:45

Collected Samples		
Type	Date	Time
Monthly Metals	1	8:30
Chromium Exchange	18	8:30
Chromium Exchange		

1 inch = 1.71875 gallons of Aqua Mag

Sparton Technology inc, CW-1 Operation and Maintenance Log

MONTH: <u>Sept</u>		AIR STRIPPERS								AQUA-MAG			MOTORS		PZ-G H ₂ O Level (ft)	Tech Initials
YEAR: <u>17</u>		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/in)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)	Blower Motor Temperature °	Discharge Motor Temperature °		
1 st	9:35	ON	NO	24.0	36.0	18.0	85,965,249	302.5	1/3/inch	315	20.0	9			2301	JD
11 th	12:20	ON	NO	24.0	35.0	17.5	90,409,128	304.8	3/4/inch	120	19.5	9	112.6	141.1 ^R		CRC
18 th	10:00	ON	NO	24.0	35.0	17.5	93,436,901	304.9	3/4/inch	311	19.8	8 1/2	107.3	140.7 ^R		CRC
25 th	11:30	ON	NO	24.0	35.0	17.5	96,536,278	304.4	3/4/inch	173	19.7	8 1/2	105.1	124.3 ^R		CRC
2 nd	1:24	ON	NO	24.0	35.0	17.5	99,645,320	305.1	3/4/inch	355	19.0	8	107.0	142.3 ^R		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
9-11	12:25	330	14.59
9-28	10:45	330	14.59

1 inch = 1.71875 gallons of Aqua Mag

Collected Samples		
Type	Date	Time
Monthly Metals		

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

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH:	YEAR:
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DATE TIME		NOTES	INITIALS

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