

MONTHLY PROGRESS REPORT
For month ending September 30th, 2016

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

10/10/16

Tasks Completed:

- A. Groundwater Monitoring Plan
 - Compiled and reviewed data from the 3rd Quarter 2016 water-level and water-quality monitoring.
 - In preparation of the 2015 Annual Report, continued the evaluation of data collected during 2015.

- 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 95.47% of the time and pumped 13,822,000 gallons (an average of 299.4 gpm). There was one outage:
 - o Due to PNM power from 9/4 to 9/6 for a total of 34 hours and 50 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 97.43% of the time and pumped 2,167,500 gallons (an average of 47.0 gpm). There were four outages:
 - o For the electrician to inspect the relay on 9/1 for 2 minutes,
 - o Due to PNM power from 9/4 to 9/6 for 33 hours and 40 minutes,
 - o For the SCADA expert to see how the system works on 9/14 for 30 minutes,
 - SCADA expert was on site to personally see how the system works and the individual alarms that indicate system failures, as well as potential locations for equipment and electrical conduit lines.



- For the Influent line re-piping on 9/19 for a combined total of 5 hours and 21 minutes.
 - The second influent line was piped into the system to solve the issue of not being able to achieve the designed 50 gpm.
- 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 September 19th.
- Replaced the pretreatment filter for the Chromium Exchange tanks on September 12th and 26th.
- 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; September 19th.
- Re-piped the redundant influent line back into the system, at this point there are two active influent lines coming into CW-2 Pump house. Both lines can deliver flow into the building, independently or simultaneously.

G. Other

- Ordered a replacement Well Wizard, unit has been tested and is fully operational. Unit is ready to be utilized for the 4th quarter sampling event.

Tasks Planned:

H. Groundwater Monitoring Plan

- Continue to prepare equipment and consumables for the 4Q2016 sampling event.
- The Fourth Quarter Ground Water Monitoring Plan will begin on Tuesday, November 1st.
 - The Water Levels will be measured on Tuesday and Wednesday, November 1st and 2nd.
 - The Monitoring Well water samples will begin to be collected on Thursday, November 3rd. The sampling event is expected to last for the entirety of November.

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 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 October 10th and October 31st.
- The pretreatment filter will be replaced on October 10th and October 24th.
- Will continue to evaluate and plan for a deep cleansing of both Influent line.
- The "Starter" for the well pump will be replaced on October 6th.

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-1 Operation and Maintenance Log

MONTH: 9 th		AIR STRIPPERS									AQUA-MAG			P2-G H2O Level (ft)	Tech Initials
YEAR: 2016		System Status: On/Off	Stripper Alarms	Blower Pressure (HzO)	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)		
2 nd	9:00	ON	NO	26.0	30.0	16.0	480,097,600	19.10	317.9	1/2 inch	285	16.25	9 1/2	23.07	JW
6 th	8:40	OFF	NO Alarms	Showered w/p System down. No call											
6 th	8:45	ON	NO	25.5	32.0	16.0	481,692,000	18.81	319.0	1/2 inch	220/450	—	9 1/2		JW
12 th	3:15	ON	NO	26.5	31.0	16.0	484,508,400	19.25	317.7	1/2 inch	330	20.0	9		JW
26 th	9:30	ON	NO	26.5	31.0	16.5	490,741,400	19.10	312.9	1/3 inch	75/450	26.7	18.2	8 3/4	JW
3 rd	10:30	ON	NO	26.0	30.0	16.0	493,99,600	19.19	317.8	1/2 inch	300/450	21.4	8 1/4	23.03	JW

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

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

(Gallons needed to fill tank * 7.5 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Collected samples		
Type	Date	Time
Monthly Metals	9/1	9:00

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
9/6	9:00	17.5
9/26	9:35	28.5

1 inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 9 th		YEAR: 2016		AIR STRIPPERS							INFILTRATION			AQUA-MAG			Tech Initials
Date	Time	System Status (On/Off)	Stripper Alarms	Blower Pressure (psig)	PRV Inlet Pressure (psig)	PRV Outlet Pressure (psig)	Water Meter Accumulation	Pump Rate (sec/50gal)	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	
1 st	8:00	ON	NO	24.0	37.5	25.5	64,116,700	59.90	50.2	1/2 inch	37.06	23,784,400	31,500,800	365	8.75	4	JD
6 th	7:00	OFF	Alarm	Shut up		System down		No phone call, Up @			7:23						JD
6 th	7:30	ON	NO	22.5	35.0	25.5	64,269,700	60.69	49.4	1/2 inch	35.31	24,033,300		340	—	4	JD
12 th	9:00	ON	NO	24.0	40.0	32.0	64,780,500	63.06	47.6	1/2 inch	34.94	24,438,600		280	10.0	4	JD
19 th	8:45	ON	NO	24.5	36.0	28.0	65,261,500	62.00	46.4	1/2 inch	35.43	24,913,100		215	9.3	4	JD
19 th	11:15	ON	NO	24.0	45.0	34.0	65,265,000	58.93	50.9	1/2 inch	37.93	24,916,600		215	—	4	JD
26 th	8:45	ON	NO	25.0	43.0	39.0	65,763,000	58.13	51.6	1/2 inch	39.58	25,406,700		140/450	10.7	3 3/4	JD
26 th	11:05	ON	NO	24.5	42.0	32.5	65,770,400	57.19	51.5	1/2 inch	37.32	25,413,400		450	—	3 3/4	JD
3 rd	9:00	ON	NO	24.5	44.0	39.0	66,286,200	59.28	50.6	1/2 inch	37.57	25,910,700	31,200,800	395	7.0	3 3/4	JD

Discharge = 3000 / (Sec/50gal) = 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
9/19	9:00	Right

Aqua Mag Top Off		
Date	Time	Gallons of AM
9/26	9:00	12.71

7.4

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
9/12	8:30
9/26	11:00

Collected Samples		
Type	Date	Time
Monthly Metals	9/1/16	8:30
Chromium Exchange	9/1/16	8:30

1 inch = 1.71875 gallons of Aqua Mag



Dillon Cottingham
 6100 Seagull Street NE
 Albuquerque, NM 87109

October 10th, 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 September 2016. A total of 13,822,000 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 2,167,500 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
09/01/2016	480,097,600	13,597,300	64,118,700	2,120,000
10/03/2016	493,919,600	13,822,000	66,286,200	2,167,500
Total		118,431,700		19,640,600

Thank You,
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE