



0000087663

ORIGINAL

MEMORANDUM RECEIVED

2008 AUG 14 P 3: 08

TO: Docket Control  
 Arizona Corporation Commission

FROM: Ernest G. Johnson  
 Director  
 Utilities Division

DATE: August 14, 2008

RE: IN THE MATTER OF THE INQUIRY INTO THE OPERATIONAL PRACTICES  
 OF LITCHFIELD PARK SERVICE COMPANY (DOCKET NO. SW-01428A-07-0602)

AZ CORP COMMISSION DOCKET CONTROL

Arizona Corporation Commission DOCKETED

AUG 14 2008

DOCKETED BY	<i>mm</i>
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Introduction

On October 18, 2007, the Commission opened the above referenced docket. This docket was to provide the vehicle for Staff to gather information on and monitor the operational practices of the Litchfield Park Service Company – Wastewater Division (“Company”).

On August 8, 2008, the Administrative Law Judge issued a Procedural Order for Staff to file by August 15, 2008, an updated report indicating whether the docket should remain open or be administratively closed.

File Update

On October 18, 2007, Staff filed a memorandum of its field and office visits of July 10, 2007. This memorandum was generated for Docket No. SW-01428A-06-0444, but Staff felt that the memorandum should also be docketed in SW-01428A-07-0602.

Although no other documents were filed in this docket since the October 18, 2007 filing, Staff has attended a Company’s Community Liaison Committee meeting, conducted field visits and filed a Compliance Filing Report, dated March 21, 2008, for docket SW-01428A-06-0444. Since this March 21<sup>st</sup> filing relates to the Company’s operational practices, Staff feels that this report should also be docketed in SW-01428A-07-0602.

On August 13, 2008, Staff member, Marlin Scott, Jr., conducted an unannounced field visit to the Company’s wastewater treatment plant. During this visit, Staff discussed with Company representatives the current plant operation and the construction status of plant upgrades. The Company also informed Staff that the Maricopa County Environmental Services Department (“MCESD”) Inspectors had been on-site on August 12, 2008 (the previous day) for

their operation and maintenance inspection. The Company provided Staff a copy of the MCESD inspection report.

According to the Company, the MCESD inspection was also conducted to verify the significant completion of the eleven plant construction upgrades in preparation of MCESD's issuance of the related Approvals of Construction ("AOC"). Once these AOCs are issued, the Company will be filing to amend its Aquifer Protection Permit ("APP"). The amended APP would be needed in order for the Company to operate and maintain the wastewater treatment plant with the plant upgrades.

On this August 13, 2008 visit, Staff did not detect any odors outside of the plant facilities and within the fenceline.

### **Conclusion**

It is Staff's opinion that this docket should remain open until the wastewater treatment plant construction upgrades have been completed and all the necessary regulatory approvals have been issued. Staff will update the docket once these conditions have been met.

EGJ:MSJ:tdp

- Attachments: 1) Compliance Filing Report, dated March 21, 2008, for 06-0444.  
2) MCESD field inspection report, dated August 12, 2008.

SERVICE LIST FOR: Litchfield Park Service Company  
DOCKET NO. SW-01428A-07-0602

Mr. Ernest G. Johnson  
Director, Utilities Division  
Arizona Corporation Commission  
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Phoenix, Arizona 85007

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1200 West Washington Street  
Phoenix, Arizona 85007

Ms. Janice Alward  
Chief, Legal Division  
Arizona Corporation Commission  
1200 West Washington Street  
Phoenix, Arizona 85007

ORIGINAL

MEMORANDUM

RECEIVED

667F

TO: Docket Control  
 FROM: Ernest G. Johnson  
 Director  
 Utilities Division  
 DATE: March 21, 2008

Arizona Corporation Commission

~~DOCKETED~~

MAR 21 2008

DOCKETED BY	mm
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2008 MAR 21 P 1:02

AZ CORP COMMISSION  
DOCKET CONTROL

RE: **COMPLIANCE FILING PER DECISION NO. 69165 -**  
 IN THE MATTER OF THE APPLICATION OF LITCHFIELD PARK  
 SERVICE COMPANY FOR A CAPACITY RESERVATION CHARGE  
 TARIFF FOR ITS NEW WASTEWATER CERTIFICATED OF  
 CONVENIENCE AND NECESSITY EXTENSION AREAS, DOCKET NO.  
 SW-01428A-06-0444

**Introduction**

On December 5, 2006, the Commission approved Decision No. 69165 for an Off-Site Facilities Hook-Up Fee Tariff for Litchfield Park Service Company – Wastewater Division (“Company”). Two of the Decision’s orders were that:

*The Company file with Docket Control as a compliance item, a copy of the Off-Site Facilities Hook-Up Fee Tariff within 30 days of a decision in this matter.*

And

*The Off-Site Facilities Hook-Up Fee Tariff not become effective until the Phase 1 carbon absorption unit has been installed and is operating and the odor problem has been resolved as verified by Commission Staff.*

On February 25, 2008, the Company submitted a letter stating that the odor abatement program at its Palm Valley Water Reclamation Facility (“PVWRF”) was completed and requested a Staff verification site visit in order for the Off-Site Hook-Up Fee Tariff to go into effect.

**Chronology**

On January 4, 2007, the Company docketed its Off-Site Facilities Hook-Up Fee Tariff within the 30 day timeframe of the decision. In this same filing, the Company acknowledged that the Tariff would become effective upon Commission Staff verifying the installation and operation of the Phase 1 carbon absorption unit.

On April 4, 2007, Maricopa County Environmental Services Department issued a Certificate of Approval of Construction for the Phase 1 carbon adsorption unit.

On June 13, 2007, the Company filed a response to Commissioner Mayes' May 29, 2007 letter regarding certain questions to the odor issues. Within the responses, the Company provided an engineering report prepared by McBride Engineering Solutions showing the current construction schedule for 10 odor control projects. Included with the filing, the Company provided an air monitoring report by Lambtech showing the fence line hydrogen sulfide (H<sub>2</sub>S) tested on March 7, 2007, with concentrations ranging from 0.006 parts per million ("PPM") to 0.011 PPM. The regulation level for H<sub>2</sub>S is 0.030 PPM for 30 minutes.

On October 18, 2007, Staff filed a report regarding the Company's wastewater spills and odor issues. Within Staff's report, Staff provided an updated project schedule for the 10 odor control projects. It was noted in the report that although the Company's schedule indicated some of the projects have not met the anticipated schedule dates, the Company is still on schedule in resolving the complete odor control issues by December 2007.

On November 29, 2007, Staff attended the Community Liaison Committee ("CLC") meeting at the Company's PVWRF. At this meeting, Aerisa International Inc. ("Aerisa") presented its odor abatement technology, followed by a tour of the newly installed odor control system. (Aerisa produces and sells systems and equipment to prevent the dissemination of diseases caused by airborne contaminants.) This Aerisa system was installed as a pilot study. It was noted by all attendees that the Aerisa system had reduced the odors tremendously.

After the CLC meeting, the Company informed Staff that although the pilot study of the Aerisa system was scheduled for a few weeks, the Company would continue the pilot study for three more months to insure that the Aerisa system was actually working. After the three month period, the Company would then submit its notice of the odor abatement program completion and request for Staff's verification.

On January 18, 2008, the Company provided another air monitoring report by Lambtech showing the fence line H<sub>2</sub>S tested on December 12, 2007, with concentrations ranging from 0.002 PPM to 0.004 PPM. This test was conducted during the pilot testing of the Aerisa system.

On March 5, 2008, Staff members; Dorothy Hains, Katrin Stukov, and Marlin Scott, Jr., conducted an on-site inspection of the Company's PVWRF to verify that the Phase 1 carbon adsorption unit had been installed and operating and the odor problem had been resolved. Staff toured the PVWRF and verified that the Phase 1 carbon adsorption unit was installed and operating. Staff took notice that all the odor abatement program projects were completed. Staff also noticed a "musty" smell (on plant property) during the tour, but attributed this smell due to the PVWRF being under construction to increase the plant capacity by 1.0 million gallons per day. Staff could not detect this smell outside the fence line.

Docket Control  
March 21, 2008  
Page 3

**Conclusion/Recommendation**

Having verified that the Company has installed the Phase 1 carbon adsorption unit and the odor problem has been resolved, Staff recommends that the Off-Site Hook-Up Fee Tariff be implemented and effective on April 1, 2008.

EGJ:MSJ:red

ORIGINATOR: Marlin Scott, Jr.

Service list for: Litchfield Park Service Company  
Docket No. SW-01428A-06-0444

Mr. Richard L. Sallquist, Esq.  
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Maricopa County – Environmental Services Department  
 Water & Waste Management Division  
 Water/Wastewater Treatment Program  
 Wastewater Treatment Plant Field Inspection Report

FACILITY CONTACT INFORMATION	OWNER CONTACT INFORMATION
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Name: <u>LIPSCO, Palm Valley WRF</u> Address: <u>14222 W. McDowell Rd.</u> <u>Goodyear, AZ 85395</u>  Contact Person: <u>Clint Arndt</u> Title: <u>Operations Manager</u> Telephone: <u>(623) 298-4823</u> Fax: <u>(623) 935-3008</u> E-mail: <u>clint.arndt@algonquinwater.com</u>	Name: <u>Algonquin Water Service, LLC</u> Address: <u>12725 W. Indian School Rd</u> <u>Suite D101</u> <u>Avondale, AZ 85392</u>  Contact Person: <u>Matthew Garlick</u> Title: <u>LIPSCO General Manager</u> Telephone: <u>(623) 935-9367</u> Fax: <u>(623) 935-1026</u> E-mail: <u>Matthew.Garlick@algonquinwater.com</u>
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OPERATOR CONTACT INFORMATION	REPORTING PARTY CONTACT INFORMATION
------------------------------	-------------------------------------

Name: <u>Same as Facility</u> Address: _____  Contact Person: <u>Clint Arndt</u> Title: _____ Telephone: _____ Fax: _____ E-mail: _____	Name: <u>Same as Facility</u> Address: _____  Contact Person: <u>Ray Scott</u> Title: <u>Wastewater Operator III</u> Telephone: <u>(623) 935-3395 3005</u> Fax: <u>(623) 935-3008</u> E-mail: <u>raymond.scott@algonquinwater.com</u>
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**PREFERRED MAILING ADDRESS FOR CORRESPONDENCE**

Facility       Other: \_\_\_\_\_  
 Owner  
 Operator  
 Reporting Party

Comments: \_\_\_\_\_

**EMERGENCY CONTACT INFORMATION**

Contact Person/Title: Clint Arndt      1 (See Facility)  
 Telephone/Mobile/Pager: (623) 298-4823 / (623) 293-3056      1      -  
 Notes: Emergency No - (623) 935-3395 - Operator on-site @ all times - w/ SEADA remote monitoring as additional.



Maricopa County – Environmental Services Department  
 Water & Waste Management Division  
 Water/Wastewater Treatment Program  
 Wastewater Treatment Plant Field Inspection Report

PERMIT INFORMATION

MCESD #: 37-191 Expires: 02/28/2009 Limit: 4.1 MGD Status: Compliance  
 Reuse #: R23618 Expires: 07/14/2011 Limit: Not Given File Copy: Signed / Draft / None  
 Aquifer #: P100310 Expires: Lifetime Limit: 8.2 AVG / 11.1 Peak (MGD) File Copy: Signed / Draft / None  
 NPDES #: AZ0025712 Expires: 07/14/2013 Limit: No Limit time File Copy: Signed / Draft / None  
 Treatment Facility Class: 4 Collection System Class: \_\_\_\_\_ Estimated Population Served: 32,000  
 Reuse Site(s): (See Below) Reuse Class: A4

ATCs issued.

Comments: Recent 11-Phase expansion will add additional 0.95 MGD of capacity to existing 4.1 MGD (MCESD #7011523). Reuse to Golf Courses, Construction Activities, on-site Landscaping, Agricultural via 10 type 2 General Reclam. water permits. AZNPDES will provide future discharge to Roosevelt Irrigation District Canal (RID).

OPERATIONS PERSONNEL INFORMATION

Treatment Facility Lead Operator Name: Clint Arndt Grade: 4  
 Field Verified. Certificate #: 8128 Expiration Date: 10/31/2008 File Copy: Yes / No  
 Collection System Lead Operator Name: \_\_\_\_\_ Grade: \_\_\_\_\_  
 Certificate #: \_\_\_\_\_ Expiration Date: \_\_\_\_\_ File Copy: Yes / No

Unmanned Facility - Remote Operator Travel Time to Facility (minutes): \_\_\_\_\_ Distance to Facility (miles): \_\_\_\_\_  
 Operator's Name: \_\_\_\_\_  
 Operator's Certificate #: \_\_\_\_\_ Expiration Date: \_\_\_\_\_ File Copy: Yes / No  
 Operator's Address: Additional operators.  
 Field Verified. Matthew Gaulick - 10500 - Grade 4, 08/31/2008  
Ray Scott - 10937 - Grade 3, 07/30/2008  
 Telephone/Mobile/Pager: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

MONTHLY REPORT INFORMATION

Last Report Date: July Last Report Status: Compliance Last Report Submitted By: Ray Scott  
 Last Report Comments: None



Maricopa County – Environmental Services Department  
 Water & Waste Management Division  
 Water/Wastewater Treatment Program  
 Wastewater Treatment Plant Field Inspection Report

5.5 MGD w/ 3<sup>rd</sup> SBR

TREATMENT PROCESS INFORMATION

Plant Design Capacity (mgd): 4.1 <sup>5.5 w/ 3<sup>rd</sup> SBR</sup> Present Flow (mgd): 3.3 De-chlorination: Yes / No

Maximum Month Flow (mgd): 3.9 Maximum Month: Sept/Oct. De-nitrification: Yes / No

Treatment Process: Influent P.S. w/ (3) pumps → (2) Fine Screens → (1) Vortex Grit Removal → (1) AAO EQ. Basin (formerly anox) → (3) SBRs (1 is new & converted fr. (2) Digestors)

Disinfection Method:

Chlorine Gas  Chlorine Liquid  Chlorine Tablet  Ozone  Ultra-Violet  Other: \_\_\_\_\_

Effluent Disposal Method:

Evaporation Ponds  Seepage Pits  Crop Irrigation  
 Percolation Ponds  Reuse  Other: \_\_\_\_\_

Roosevelt Irrigation District Canal (future in accord w/ future AEPDES)

Maximum Flow Rate (mgd): 5.5 Discharged To: \_\_\_\_\_

Solids Disposal Method:

Landfill <sup>(Cost Included)</sup>  Sanitary Sewer  Other: \_\_\_\_\_  
 Pump and Haul  Land Application

2.7 MG/MO ← wet sludge basis.

(sludge + grit + screenings)

Maximum Volume (tons/month): 5,400 tons Disposed To: \_\_\_\_\_

Alternate Power Supply:

Redundant Electrical Feed  On-site Generator(s)  Portable Standby Generator(s)  Other: \_\_\_\_\_

(1) and (2) separate APS Feeds.

TREATMENT PROCESS MONITORING / TESTING

NA  NE DEFICIENCIES:  YES  NO

Outside laboratory Used: (Yes) / No Laboratory Name/Address: Legend - Phoenix

Lab Licensed by ADHS: (Yes) / No

Monitoring/Testing Parameters:

Flow  BOD  Settable Solids  TSS  NO<sub>3</sub>  F:M  
 Temperature  COD  Sludge Blanket Depth  VSS  NO<sub>2</sub>  MCRT  
 pH  DO  MLSS  RAS  TKN  Fecal  
 NTU  OUR  MLVSS  WAS  NH<sub>3</sub>  Other: E-coli  
 CL<sub>2</sub> Residual  SOUR  SVI

Sample Points: \_\_\_\_\_

Observations: \_\_\_\_\_

- 1) Effluent quality testing is not being performed.\*
- 2) Process treatment testing is inadequate or incomplete.\*
- 3) Samples are not collected at the required frequency.\*
- 4) Necessary laboratory equipment to perform analysis is not available.\*
- 5) Laboratory lacks general cleanliness, neatness and organization.

- 7) Laboratory is located near vibrating machinery or equipment.
- 8) Records are not maintained or are not immediately accessible.
- 9) Other: \_\_\_\_\_



Maricopa County – Environmental Services Department  
Water & Waste Management Division  
Water/Wastewater Treatment Program  
Wastewater Treatment Plant Field Inspection Report

GENERAL ITEMS

NA  NE DEFICIENCIES:  YES  NO

- 1) Operating a wastewater treatment plant without a valid permit.\*
- 2) No certified operator.\*
- 3) Certified operator not the appropriate grade or type.\*
- 4) No on-site certified operator.\*
- 5) Remote operator does not provide written instruction.
- 6) Remote operator cannot be reached by telephone at all times.
- 7) Remote operator does not inspect plant at the required frequency.
- 8) Inadequate daily log of all operation and maintenance activities.
- 9) O & M manual is not at the plant.
- 10) O & M manual not written specifically for the plant.
- 11) O & M manual is not current or is inadequate.
- 12) O & M manual is missing emergency operating procedures.
- 13) Project under construction without an Approval To Construct.\*
- 14) Project placed in operation without Approval of Construction.\*
- 15) Construction does not conform to approved plans.\*
- 16) No 'As-built' drawings submitted where required.\*
- 17) Influent will bypass the treatment process.\*
- 18) An unauthorized discharge has traveled off-site and has created an environmental hazard.\*
- 19) An unauthorized discharge remains on the property creating an environmental hazard or nuisance.\*
- 20) Average Daily Flow >90% of design capacity. Submit Plans for expansion. Stop making connections to the collection system.\*
- 21) Three feet of freeboard cannot be maintained in all of the ponds or lagoons simultaneously during part of the year. The ponds or lagoons are seasonally hydraulically overloaded. Stop making connections to the collection system.\*
- 22) Operating under a General Aquifer Protection Permit and actual flow rates exceeded 20,000 gpd during the past year. Apply for an Individual Aquifer Protection Permit from ADEQ.
- 23) No emergency power supply.\*
- 24) Emergency power supply is inoperative.\*
- 25) Emergency power supply does not operate automatically.\*
- 26) Poor maintenance practices have allowed unsafe conditions to develop within the plant.
- 27) Routine maintenance not being performed.
- 28) Preventive Maintenance Program does not exist.
- 29) Instruments are not calibrated per manufacture specifications.
- 30) No or inadequate inventory of spare parts.
- 31) Cross-connection with a potable water supply exists.\*
- 32) No backflow prevention device(s) on the potable water line(s).\*
- 33) The backflow prevention device on the potable water line has not been properly tested within the past year.\*
- 34) Handrails are not provided around basins and/or openings.
- 35) Inadequate grading allows surface water to drain into basins.
- 36) Legible warning signs prohibiting trespassing are not displayed.
- 37) Plant is not surrounded by a 6 ft. tall fence of sufficient strength.
- 38) Entry gate to the plant is not kept locked when the plant is unattended.
- 39) Fence is too close to the treatment equipment and obstructs maintenance activities for a unit process.
- 40) Vectors, midge flies are present.
- 41) Foul odors detected at plant boundary.
- 42) Excessive noise at plant boundary.
- 43) Poor housekeeping.
- 44) Poor aesthetic control.
- 45) Complaints received from neighbors.

Type: \_\_\_\_\_ Number: \_\_\_\_\_

46) Other: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Maricopa County – Environmental Services Department  
 Water & Waste Management Division  
 Water/Wastewater Treatment Program  
 Wastewater Treatment Plant Field Inspection Report

**HEADWORKS** Building  NA  NE DEFICIENCIES:  YES  NO

Current Flow Rate: 3.3 MGD Alarms: No

Observations: Infl. Pump Station (3) Pumps → (2) Fine Screens →  
(Formerly mous (1) Vortex Grit Remover → (1) EQ Basin  
(Formerly arox. basin). New Ultima Oz, H<sub>2</sub>S + methane  
continuous monitor + alarm system

- |   |   |
|---|---|
| <input type="checkbox"/> 1) No bar screen to prevent foreign objects from entering the plant.<br><input type="checkbox"/> 2) Bar screen / Rack is damaged and needs repair.<br><input type="checkbox"/> 3) Bar screen / Rack needs cleaning.<br><input type="checkbox"/> 4) Automatic cleaning mechanism damaged and/or inoperative.<br><input type="checkbox"/> 5) Comminutor is inoperative or damaged.<br><input type="checkbox"/> 6) No influent flow measuring device.<br><input type="checkbox"/> 7) Inoperative influent flow measuring device.<br><input type="checkbox"/> 8) Complete mixing is not occurring<br><input type="checkbox"/> 9) Flowmeter is not calibrated at least once a year.<br><input type="checkbox"/> 10) Foreign material will interfere with proper flow measurement. | <input type="checkbox"/> 11) Excess solids in grit chamber or velocity control structure.<br><input type="checkbox"/> 12) Excess grease and scum present on surface and walls.<br><input type="checkbox"/> 13) Improper disposal of screenings, grit, and/or scum and grease.<br><input type="checkbox"/> 14) Cleaning platform is not safe and/or, lacks drainage.<br><input type="checkbox"/> 15) Screening disposal bin lacks tight fitting lid.<br><input type="checkbox"/> 16) Odor control system is not functioning.<br><input type="checkbox"/> 17) Other: _____<br>_____ |
|---|---|

**PRIMARY CLARIFIERS**  NA  NE DEFICIENCIES:  YES  NO

Number of Clarifiers: 1 2 3 4 5 6 Size (ft): \_\_\_\_\_

Sludge Blanket Depth From Surface (ft): \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Weir Type: \_\_\_\_\_

Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Clarifier No.						
1	2	3	4	5	6	
<input type="checkbox"/>	1) Discharge weir is not level.					
<input type="checkbox"/>	2) Effluent is turbid, indicating less than adequate treatment.					
<input type="checkbox"/>	3) Short circuiting is occurring.					
<input type="checkbox"/>	4) Skimmer \ Scum Box is plugged or requires cleaning.					
<input type="checkbox"/>	5) Skimmer mechanism damaged or inoperative.					
<input type="checkbox"/>	6) Excess floating solids or scum on water surface or walls.					
<input type="checkbox"/>	7) Insufficient sludge accumulation in clarifier – adjust process.					
<input type="checkbox"/>	8) Excess sludge accumulation in clarifier – adjust process.					
<input type="checkbox"/>	9) Sludge is septic: rising to the surface and releasing odors.					
<input type="checkbox"/>	10) Sludge collection mechanism is not operational.					
<input type="checkbox"/>	11) RAS equipment is not operational.					
<input type="checkbox"/>	12) WAS equipment is not operational.					
<input type="checkbox"/>	13) Short circuiting is occurring					
<input type="checkbox"/>	14) No scum baffle is present prior to the outlet weir					
<input type="checkbox"/>	15) Other: _____					



Maricopa County – Environmental Services Department  
 Water & Waste Management Division  
 Water/Wastewater Treatment Program  
 Wastewater Treatment Plant Field Inspection Report

**AERATION TANKS (Activated Sludge & SBR)**

NA  NE DEFICIENCIES:  YES  NO

Number of Tanks: 1 2 3 4 5 6 \_\_\_\_\_ Covered: Yes / No Size (ft): \_\_\_\_\_

Process Type: \_\_\_\_\_ Decant/Overflow Type: \_\_\_\_\_ Date of Last Scheduled Service: \_\_\_\_\_

Dissolved Oxygen: Probe / Kit Dissolved Oxygen Level (mg/l): \_\_\_\_\_ Stand-by Blowers: \_\_\_\_\_

Aeration Type: Fine Bubble / Coarse Bubble / Rotor Brush / Mechanical Blade / Aspiration Jet / Other: \_\_\_\_\_

Nitrification/Denitrification Process: Yes / No

Observations: EQ Basin (formerly ANOX) → (2) original SBRs + (1) New SBR (formerly (2) digestors now connected) . (5) Blowers for SBRs 1&2 , (3) Blowers for SBR 3. Head (2) WAS Pumps for SBR 1&2 . (2) WAS Pumps for New

SBR 3 .

Tank No.

1 2 3 4 5 6

- 1) Aeration is not being performed.
- 2) Insufficient aeration: dissolved oxygen level (< 1.0 mg/l).
- 3) Aeration time controls inoperative or missing for SBR.
- 4) Aeration is not uniform throughout the tank.
- 5) No standby blower.
- 5) Inoperative standby blower.
- 6) Unpleasant odors are being emitted.
- 7) Excess solids have collected in the tanks.
- 8) Excess scum or foam is on the water surface.
- 9) Short circuiting is occurring
- 10) Other: \_\_\_\_\_

**TRICKLING FILTERS/BIOLOGICAL CONTACTORS**

NA  NE DEFICIENCIES:  YES  NO

Number of Units: 1 2 3 4 5 6 \_\_\_\_\_ Covered: Yes / No Size (ft): \_\_\_\_\_

Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Unit No.

1 2 3 4 5 6

- 1) Uneven distribution of the wastewater over the top of the trickling filter.
- 2) Wastewater is ponding on top of the trickling filter; media is plugged.
- 3) Excessive population of filter flies.
- 4) Underdrain system is damaged.
- 5) Re-circulation pumps are damaged or not operational.
- 6) Ventilation system is plugged or not operational.
- 7) Plugged Orifices on distributor arm.
- 8) Roughness or vibrations in the distributor arm rotation.
- 9) Other: \_\_\_\_\_



Maricopa County – Environmental Services Department  
 Water & Waste Management Division  
 Water/Wastewater Treatment Program  
 Wastewater Treatment Plant Field Inspection Report

**OXIDATION DITCHES**  NA  NE DEFICIENCIES:  YES  NO

Number of Ditches: 1 2 3 4 5 6 \_\_\_\_\_  
 Observations: \_\_\_\_\_  
 \_\_\_\_\_

Ditch No.						
1	2	3	4	5	6	
<input type="checkbox"/>	1) Aeration is not being performed.					
<input type="checkbox"/>	2) Insufficient aeration dissolved oxygen level (< 1.5 mg/l).					
<input type="checkbox"/>	3) Aeration is not uniform across the width of the brush rotor(s).					
<input type="checkbox"/>	4) Short circuiting is occurring.					
<input type="checkbox"/>	5) No or inoperative standby brush rotor.					
<input type="checkbox"/>	6) Unpleasant odors are being emitted.					
<input type="checkbox"/>	7) Excess solids have accumulated in the ditch.					
<input type="checkbox"/>	8) Excess scum or foam is on the water surface or walls.					
<input type="checkbox"/>	9) Other:					

**PONDS / LAGOONS**  NA  NE DEFICIENCIES:  YES  NO

Number of Ponds/Lagoons: 1 2 3 4 5 6 \_\_\_\_\_ Size (ft): \_\_\_\_\_  
 No. of Aerators in each pond / No. of Aerators operating: \_\_\_\_\_ / \_\_\_\_\_ Dissolved Oxygen Level (mg/l): \_\_\_\_\_  
 Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<input type="checkbox"/>	1) Boat is not equipped with two life jackets.					
Pond / Lagoon No.						
1	2	3	4	5	6	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2) Less than 3 feet of water is in the pond or lagoon.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3) Less than 3 feet of freeboard is in pond or lagoon. Adjust flow to maintain 3 feet freeboard in all ponds or lagoons.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4) Pond or lagoon is overflowing.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5) Unpleasant odors are present.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6) Excess vegetation is at the water line and/or on the pond or lagoon bottom.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7) Berm is leaking.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8) Berm is not sloped 3:1.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9) Top of berm is less than 8 feet wide.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10) Severe erosion on the inner banks of the berm is present.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11) Berm is damaged by weeds or burrowing animals.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12) Trees are growing in or on the banks of the lagoon or pond.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13) Flow meter is not recorded daily.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14) Surface aerator(s) is (are) not operating.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15) Pond or lagoon is gray or black; insufficient aeration.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16) Excessive floating solids are on the water surface.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17) Short circuiting is occurring.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18) Pond or lagoon is equipped with an unauthorized overflow or discharge mechanism(s).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19) Pond or lagoon will collect rainwater runoff.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20) Sludge depth exceeds 24 inches.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	21) Other:



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**SECONDARY CLARIFIERS**

NA    NE   DEFICIENCIES:  YES    NO

Number of Units: 1 2 3 4 5 6 \_\_\_\_\_ Covered: Yes / No   Size (ft): \_\_\_\_\_

Weir Type: \_\_\_\_\_ Scum Removal Type: \_\_\_\_\_ Sludge Blanket Depth From Surface (ft): \_\_\_\_\_

Observations: \_\_\_\_\_

Clarifier No.

1 2 3 4 5 6

- |                          |                          |                          |                          |                          |                          |  |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | 1) Discharge weir is not level.                                    |
| <input type="checkbox"/> | 2) Effluent is turbid, indicating less than adequate treatment.    |
| <input type="checkbox"/> | 3) Short circuiting is occurring.                                  |
| <input type="checkbox"/> | 4) Skimmer \ Scum Box is plugged or requires cleaning.             |
| <input type="checkbox"/> | 5) Skimmer mechanism is damaged or inoperative.                    |
| <input type="checkbox"/> | 6) Excess floating solids or scum on water surface or walls.       |
| <input type="checkbox"/> | 7) Insufficient sludge accumulation in clarifier – adjust process. |
| <input type="checkbox"/> | 8) Excess sludge accumulation in clarifier – adjust process.       |
| <input type="checkbox"/> | 9) Sludge is septic: rising to the surface and releasing odors.    |
| <input type="checkbox"/> | 10) Sludge collection mechanism is not operational.                |
| <input type="checkbox"/> | 11) RAS equipment is not operational.                              |
| <input type="checkbox"/> | 12) WAS equipment is not operational.                              |
| <input type="checkbox"/> | 13) Corner pockets and dead zones are present.                     |
| <input type="checkbox"/> | 14) No scum baffle is present prior to the outlet weir.            |
| <input type="checkbox"/> | 15) Other:   |

**EFFLUENT FILTERS**

NA    NE   DEFICIENCIES:  YES    NO

Number of Filters: 1 2 3 4 5 6 \_\_\_\_\_ Type: Pressure / Gravity   Media: Sand / Anthracite / Other: Cloth /

How is the backwash cycle initiated (pressure drop, timer, manual, etc.): Disc.

Backwash frequency: \_\_\_\_\_ Backwash water discharged to: Headworks

Chemicals Added (type, amount and frequency): \_\_\_\_\_

Observations: SBRs → (1) Surge Tank → (3) Disc. Filters w/ Recycle

Line to headworks → (1) Clearwell w/ (3) orig. pumps → UV.

(1) New Pump

Ditch No.

1 2 3 4 5 6

- |                          |                          |                          |                          |                          |                          |   |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | 1) Filter is overloaded with solids.  |
| <input type="checkbox"/> | 2) Rotary surface washers are plugged.  |
| <input type="checkbox"/> | 3) Backwash equipment is not operational.   |
| <input type="checkbox"/> | 4) Backwash cycle removes excessive filter media. Backwash rate too high and/or start of backwash too abrupt. |
| <input type="checkbox"/> | 5) Insufficient media in the filter. Add more media.  |
| <input type="checkbox"/> | 6) Backwash does not thoroughly clean the filter media. Backwash rate too low and/or duration too short.      |
| <input type="checkbox"/> | 7) Backwash controls are not operational.   |
| <input type="checkbox"/> | 8) Bed breakthroughs occur before the end of the filter run.  |
| <input type="checkbox"/> | 9) Mudballs are being formed in the filters.  |
| <input type="checkbox"/> | 10) Backwash water exceeds 15% of average design flow.  |
| <input type="checkbox"/> | 11) Other:  |



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**DISINFECTION SYSTEMS**  NA  NE DEFICIENCIES:  YES  NO

Method:  Chlorine Gas  Chlorine Liquid  Chlorine Tablet  Ozone  Ultra-Violet  Other: \_\_\_\_\_

Contact Chamber Size (ft): \_\_\_\_\_ Chlorine Residual (mg/l): \_\_\_\_\_ De-chlorination: Yes / No

Observations: (4) of (8) orig. Ozonia UVs will be backup.

Filter Clear Well → (2) Aquionics (5 MGD Train 1) + (2) Aquionics (5 MGD) Train 2

- 1) Disinfection equipment is not being used. (5 MGD From Capacity).
- 2) Disinfection equipment is not operational.
- 3) No stand-by disinfection equipment is available.
- 4) Inadequate disinfection facilities.
- 5) Self contained breathing apparatus is not on site for use when changing gas cylinders.
- 6) Self contained breathing apparatus is empty, unusable or not operational.
- 7) Self contained breathing apparatus is stored in an area which may become filled with gas. (Backup).
- 8) Warning signs not prominently displayed.
- 9) No inspection window on the exterior door or the interior wall.
- 10) Exhaust fan and light switch are not located outside the door.
- 11) Exhaust fan and lights will not automatically operate when the door is opened.
- 12) Exhaust fan is not operational.
- 13) Exhaust fan does not draw from floor level.
- 14) Exhaust fan vents at an unsafe location and may contaminate air inlet to another building, etc.
- 15) Chlorine poster describing chlorine handling instructions and precautions should be posted in a conspicuous place.
- 16) Chlorine room does not have proper leak alarms.
- 17) Chlorine leak detection alarms not operational.
- 18) Ammonia hydroxide used for chlorine leak detection is not present.
- 19) No or incomplete chlorine cylinder repair kit.
- 20) Chlorine is stored in close proximity to organic compounds or fine metal powders creating a fire hazard.
- 21) Chlorine cylinders not secured properly with a safety chain.
- 22) Chlorine cylinder scale is not operational.
- 23) Gaseous chlorine line and/or injector run outside of the vented chlorinator room.
- 24) Chlorinator is subject to freezing or extreme heat.
- 25) Chlorine contact time is less than 30 minutes.
- 26) Excessive sludge and grit is in the chlorine contact chamber.
- 27) Automatic switchover system is not operational.
- 28) UV tubes are exhausted or need cleaning.
- 29) Other:

NaOH Chem Feed to Before + After Filters (Backup).  
 New Phase XI 2011523 Sodium Bi-sulfite (Dechlor) after Filters (Backup)

**ODOR CONTROL SYSTEMS**  NA  NE DEFICIENCIES:  YES  NO

Method:  Carbon Canister  Chemical System  Biofilter  Other: \_\_\_\_\_ Fan Capacity (scfm): \_\_\_\_\_

Application Point/Facility Served: (2) ionization systems scrub all buildings (dry 6,000 scfm)

Observations: 4 above grade. (1) 3-stage chem (solids-underground) & (1) 2-stage (10,000 scfm) for headworks. Both Chemical

- 1) Odor control equipment is not being used. scrubbers pass thru 16,000 scfm BAC scrubber
- 2) Odor control equipment is not operational or is ineffective.
- 3) No stand-by odor control equipment is available.
- 4) Spill containment is not provided for chemical systems.
- 5) Emergency eyewash and shower is not available for chemical systems.
- 6) Other:



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**DIGESTERS / SLUDGE STABILIZATION**

NA     NE    DEFICIENCIES:  YES     NO

Number of Digesters: 1 2 3 4 5 6 \_\_\_\_\_ Type: Aerobic / Anaerobic    Size (ft): \_\_\_\_\_

Sludge Detention Time (minutes): \_\_\_\_\_

Observations: (3) aerated holding tanks for WAS from SBRs  
(2) blowers. Decant to headworks.

		Digester No.						
		1	2	3	4	5	6	
AEROBIC & ANAEROBIC	<input type="checkbox"/>	1) Inoperative raw sludge feed system.						
	<input type="checkbox"/>	2) Inoperative digested sludge draw-off system.						
	<input type="checkbox"/>	3) Inoperative sludge flowmeter(s).						
	<input type="checkbox"/>	4) Excess scum is on the water surface or walls.						
	<input type="checkbox"/>	5) Excess grit in bottom of digester.						
	<input type="checkbox"/>	6) Short circuiting is occurring due to inadequate mixing.						
	<input type="checkbox"/>	7) Inoperative mixers.						
	<input type="checkbox"/>	8) Inoperative supernatant draw-off system.						
	<input type="checkbox"/>	9) Supernatant is discharged without further treatment and/or disinfection and not recycles back into the plant.						
	<input type="checkbox"/>	10) Supernatant will adversely affect downstream treatment processes.						
	<input type="checkbox"/>	11) No clean-outs are on the sludge inlets and outlets.						
	<input type="checkbox"/>	12) Sludge lines are subject to frequent plugging.						
	<input type="checkbox"/>	13) No access manholes to clean tank (sand and grit removal).						
	<input type="checkbox"/>	14) Supernatant withdrawal cannot be made from three or more levels.						
	<input type="checkbox"/>	15) Supernatant withdrawal piping is less than six inches in diameter and without provisions for sampling at each level.						
	<input type="checkbox"/>	16) Alternate supernatant disposal location is not provided.						
	<input type="checkbox"/>	17) Insufficient tank capacity.						
	<input type="checkbox"/>	18) Sampling not conducted at supernatant draw off, incoming feed or stabilized sludge withdrawal.						
	<input type="checkbox"/>	19) Other: _____						
AEROBIC	<input type="checkbox"/>	20) Aeration is not being performed.						
	<input type="checkbox"/>	21) Insufficient aeration dissolved oxygen level (< 1.0 mg/l).						
	<input type="checkbox"/>	22) Aeration is not continuous.						
	<input type="checkbox"/>	23) Aeration is not uniform throughout the digester tank.						
	<input type="checkbox"/>	24) No standby blower..						
	<input type="checkbox"/>	25) Inoperative standby blower.						
ANAEROBIC	<input type="checkbox"/>	26) Unpleasant odors being emitted.						
	<input type="checkbox"/>	27) Digester gas leaks to the atmosphere.						
	<input type="checkbox"/>	28) No flame arresters installed. Flame arresters are required:						
								a) Between the vacuum and pressure relief valves and the pressure dome.
								b) After the sediment trap on the gas from the digester.
								c) At all gas and waster gas burners.
	<input type="checkbox"/>	29) Flame arresters are not serviced at the frequency or by the methods specified by the manufacturer.						
	<input type="checkbox"/>	30) Water seal is dry or low.						
	<input type="checkbox"/>	31) Floating top is binding or tilting.						
	<input type="checkbox"/>	32) Pressure relief and vacuum relief valves are not tested at least every six months for proper operation.						
	<input type="checkbox"/>	33) No or inoperative means to measure the gas pressure.						
	<input type="checkbox"/>	34) No or inoperative gas flowmeter(s).						
	<input type="checkbox"/>	35) No or inoperative sediment traps(s) in the gas line(s).						
	<input type="checkbox"/>	36) Inoperative pilot light on the waste gas burner.						
<input type="checkbox"/>	37) Digester gas is discharged to the atmosphere rather than being burned and complaints are received.							
<input type="checkbox"/>	38) Digester gas is discharged to the atmosphere less than 10 feet off the ground creating a potential hazard.							
<input type="checkbox"/>	39) No gas meter to measure total gas produced.							
<input type="checkbox"/>	40) Switches for operation of ventilation equipment are not marked or conveniently located.							



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**SLUDGE HANDLING AND DISPOSAL**  NA  NE DEFICIENCIES:  YES  NO

Handling Method:  Drying Beds  Vacuum Filter  Centrifuge  Filter/Belt Press  Other: \_\_\_\_\_

Number of Drying Beds: 1 2 3 4 5 6 \_\_\_\_\_ Type: Evaporative / Evaporative-Percolation Sludge Depth (inches): \_\_\_\_\_

EPA Sludge Class: Unclassified Centrate Send To: Headworks

Disposal Method:  Pump & Haul  Landfill  Sanitary Sewer  Land Application  Other: \_\_\_\_\_

Disposal Location: \_\_\_\_\_ Volume (tons/month): 2.7 MG/MO  
wet Basis

Sludge Conditioned:  Yes /  No Conditioning Chemical:  Aluminum Sulfate (Al SO<sub>3</sub>)  Polymer  
 Ferric Chloride (FeCl<sub>3</sub>)  Lime (CaO)  
 Ferrous Chloride (Fe<sub>2</sub>Cl)  Other: \_\_\_\_\_

Observations: Decant to headworks. Roll-off bins have sealed polymer lids.

- |   |  |
|---|--|
| <input type="checkbox"/> 1) Sludge is discharged to a water body or dry wash.                 | <input type="checkbox"/> 5) Alarm system is not operating. |
| <input type="checkbox"/> 2) Sludge is discharged to disposal pits, dry wells or a cesspool.   | <input type="checkbox"/> 6) Other: _____                   |
| <input type="checkbox"/> 3) Surface water is not prevented from entering the sludge beds.     |  |
| <input type="checkbox"/> 4) Excessive build-up of sludge or cake on lines and conveyor belts. |  |

**REUSE SYSTEMS**  NA  NE DEFICIENCIES:  YES  NO

Reuse Category:  Orchards  Restricted Access  Open Access  On-Site  Other: \_\_\_\_\_

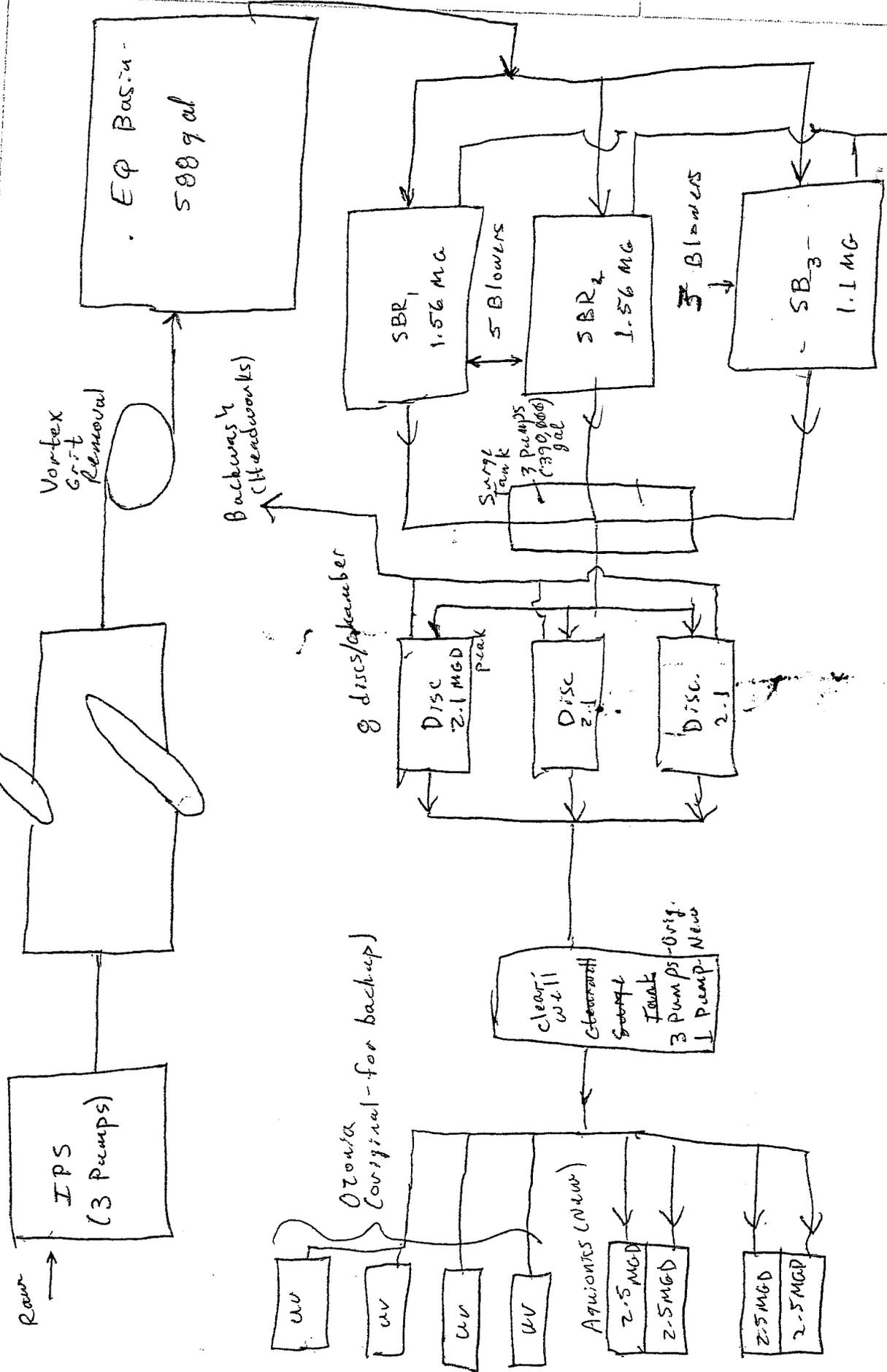
Restricted Access: Condition of Fence or Barrier: \_\_\_\_\_ Height of Fence or Barrier (feet): \_\_\_\_\_

How is Access Restricted? \_\_\_\_\_ Time of Day Irrigation Occurs: \_\_\_\_\_

Observations: Reuse - agricultural, golf courses, on-site irrigation, construction. Future - overflow to RID canal in accordance w/ AZPDES.

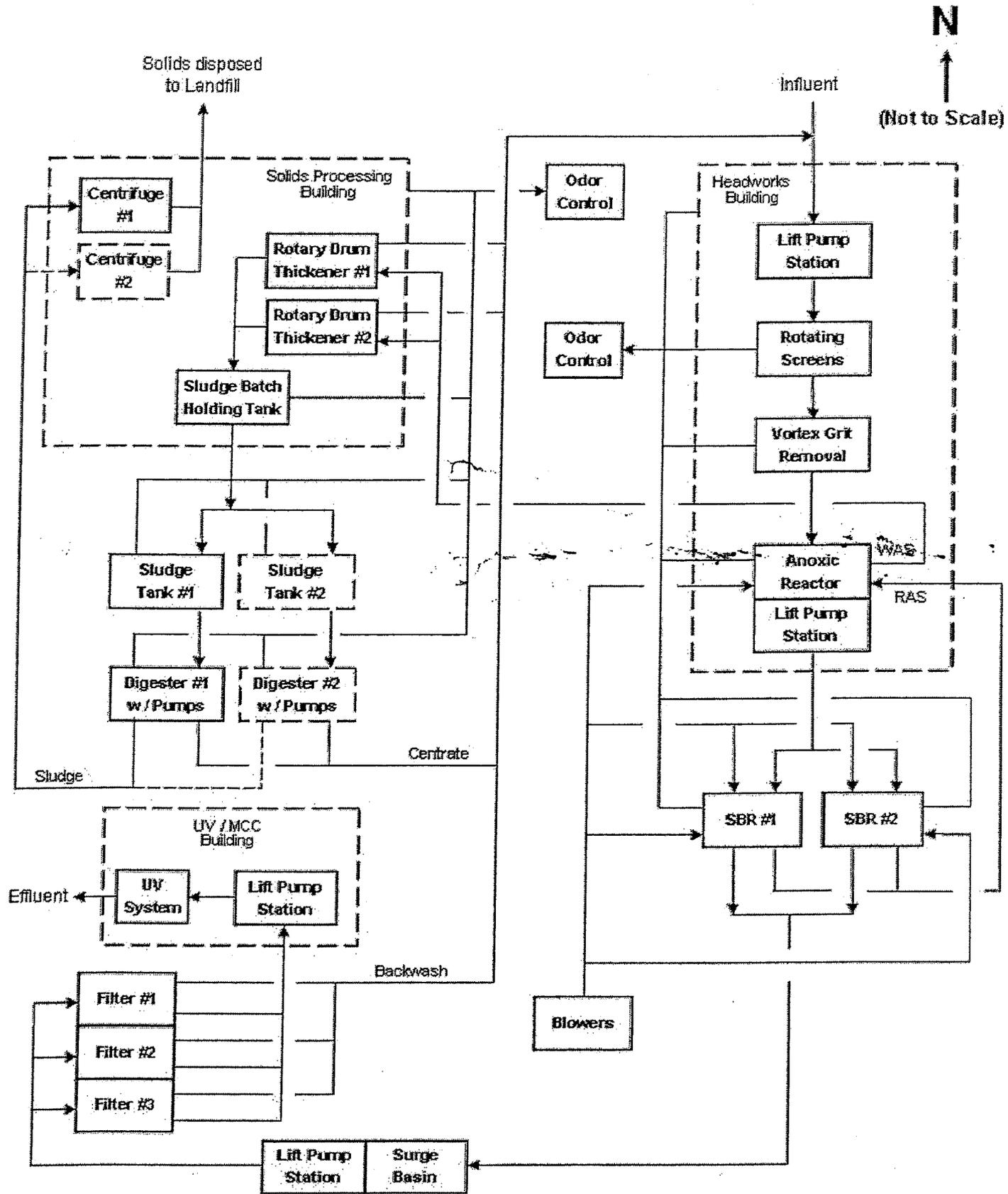
- 1) Reuse of reclaimed wastewater without a permit.\*
- 2) Reuse of reclaimed wastewater with an expired permit.\*
- 3) Reuse site is not approved by MCESD.\*
- 4) Untreated wastewater is used for irrigation.\*
- 5) Cross-connection(s) is present between reclaimed water system and a potable water system.\*
- 6) Reuse water lines are not color coded or clearly identified.\*
- 7) Warning signs reading "Irrigated with Reclaimed Wastewater" or similar language are not prominently displayed.
- 8) Warning language reading "Irrigated with Reclaimed Wastewater" or similar language is not found on golf course score cards.
- 9) Reclaimed wastewater travels off the reuse site.
- 10) Ponding or standing water is present.
- 11) Runoff leaves the reuse site.
- 12) Irrigation spray will contact privately owned premises or public drinking fountains or extends beyond the permitted area.
- 13) Irrigation occurs at a time that does not minimize direct contact with the public.
- 14) Irrigation practices do not minimize effluent contact with orchard fruit/foilage.
- 15) Restricted Access fence is not high enough or not secure.
- 16) Open Access hose bibs are not posted with warning signs.
- 17) Open Access hose bibs are not secure.
- 18) Insufficient number of reuse sites.
- 19) Other: \_\_\_\_\_

Fine Screens  
(Star Screens)



WAS  
(solids B/dg)  
(3) aerated holding  
tanks  
(220 gal each)

# Palm Valley WRF 37-191 Process Schematic





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**COLLECTION SYSTEM**  NA  NE DEFICIENCIES:  YES  NO

Number of Manholes: \_\_\_\_\_ Number of Lift Stations: \_\_\_\_\_

Flow to Wastewater Treatment Plant: Gravity Flow / Forced Main

Flushing Frequency: \_\_\_\_\_

Spill Control & Containment Program: \_\_\_\_\_

Chemicals Added:  Aluminum Sulfate (Al SO<sub>3</sub>)  Polymer  Other: \_\_\_\_\_  
 Ferric Chloride (FeCl<sub>3</sub>)  Lime (CaO)  
 Ferrous Chloride (Fe<sub>2</sub>Cl)  Potassium Permanganate (KMnO<sub>4</sub>)

Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- 1) No certified operator.\*
- 2) Certified operator not the appropriate grade or type.\*
- 3) No on-site certified operator.\*
- 4) Remote operator does not provide written instruction.
- 5) Remote operator cannot be reached by telephone at all times.
- 6) Inadequate daily log of all operation and maintenance activities.
- 7) Other: \_\_\_\_\_

**LIFT STATIONS**  NA  NE DEFICIENCIES:  YES  NO

Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Lift Station No. 1	Lift Station No. 2
Name: _____	Name: _____
Address: _____	Address: _____
Size (gpd): _____ No. of Pumps: _____	Size (gpd): _____ No. of Pumps: _____
Observations: _____	Observations: _____





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COLLECTION SYSTEM DRAWING



NE

Not to Scale

COLLECTION SYSTEM NOTES