

Orange County Sanitation District

BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

EPA 40 CFR Part 503

2024

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List of Abbreviations

Acronym or abbreviation	Full phrase
ADEQ	Arizona Department of Environmental Quality
CDX	Central Data Exchange
CCR	California Code of Regulations
CVRWQCB	Central Valley Regional Water Quality Control Board
EPA	United States Environmental Protection Agency
LEA	Local Enforcement Agency
LIMS	Laboratory Information Management Systems
MCRTs	Mean cell residence times
MGD	Million gallons per day
NOV	Notice of violation
NPDES	National Pollutant Discharge Elimination System
OC San	Orange County Sanitation District
OCWR	Orange County Waste and Recycling
QA/QC	Quality assurance and quality control
RCRA	Resource Conservation and Recovery Act
SARWQCB	Santa Ana Regional Water Quality Control Board

Glossary

Term	Definition
40 CFR Part 503	The Code of Federal Regulations Title 40 Part 503, established by the EPA, outlines the requirements and management practices for the use and disposal of sewage sludge (biosolids).
Activated Sludge Process	A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen and consume dissolved nutrients in the wastewater.
Anaerobic Digestion	The biochemical decomposition of organic matter in biosolids into methane gas and carbon dioxide by microorganisms in the absence of air.
Biogas	A gas that is produced by the action of anaerobic bacteria on organic waste matter in a digester tank that can be used as a fuel.
Biosolids	Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farmland or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth
Coliform Bacteria	A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere, used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.
Collection System	In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.
Dry-weight basis	the weight of biosolids calculated after the material has been dried at 105° C until reaching a constant mass.

Term	Definition
Publicly Owned Treatment Works (POTW)	A municipal wastewater treatment plant.
Pretreatment	The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in Wastewater to a level authorized by OC San prior to, or in lieu of, discharge of the Wastewater into v's Sewerage System. The reduction or alteration can be obtained by physical, chemical or biological processes, by process changes, or by other means.
Pretreatment Program	A program administered by a POTW that meets the criteria established in 40 CFR 403.8 and 403.9 and which has been approved by a Regional Administrator or State Director in accordance with 40 CFR 403.11.
Secondary Treatment	Biological wastewater treatment, particularly the activated sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.
Sewerage System	Any and all facilities used for collecting, conveying, pumping, treating, and disposing of Wastewater or sludge or biosolids.
Sludge	Untreated solid material created by the treatment of wastewater.
Total Suspended Solids (TSS)	The amount of solids floating and in suspension in wastewater.
Trickling Filter	A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.
Total Toxic Organics	The summation of all quantifiable values greater than 0.01 milligrams per liter for the organics regulated by the EPA or OC San for a specific industrial category.
Wastewater	Any water that enters the sanitary sewer.
Watershed	A land area from which water drains to a particular water body. OC San's service area is in the Santa Ana River Watershed.

Section 1. Introduction

OC San is a public agency that provides wastewater collection, treatment, and recycling services for approximately 2.6 million people in central and northwest Orange County, California. OC San is a special district that is governed by a Board of Directors consisting of 25 board members appointed from 20 cities, two sanitary districts, two water districts, and one representative from the Orange County Board of Supervisors. OC San has two operating facilities, Reclamation Plant No. 1 located in the city of Fountain Valley and Reclamation Plant No. 2 located in the city of Huntington Beach, that treat wastewater from residential, commercial, and industrial sources.

The 2024 OC San Biosolids Annual Report (Annual Report) is in accordance with OC San's National Pollutant Discharge Elimination System (NPDES) permit, Arizona Administrative Code (AAC) Title 18, Ch. 9, Article 10 (R18-9), and Code of Federal Regulations Title 40 Part 503 (40 CFR 503). The Annual Report provides information on OC San's biosolids management program including, but not limited to, the compliance status, biosolids generation, operational parameters, management practices, summary of regulatory constituents, hazardousness determination, and other aspects of the biosolids management program.

Biosolids Program Summary

Regulatory Compliance

For this annual reporting period, OC San's biosolids had no violations and met the regulatory standards and/or criteria outlined in OC San's NPDES permit, AAC R18-9, and 40 CFR 503.

Biosolids Production

During 2024, both Reclamation Plant No. 1 and Reclamation Plant No. 2 produced a combined total of 185,192 wet tons of biosolids (43,116 dry metric tons), averaging 25% and 27% total solids for each facility, respectively. This equates to an average of 506 wet tons per day of biosolids including digester cleaning materials, which were managed in compliance with "Class B" biosolids management practices and were 99.9% recycled.

Control of Pollutants

Since FY 1976/77, the pretreatment program has been successful in reducing the average daily pounds of metals (described below) entering OC San's system by 90% and metals discharged to the marine environment by 99%. Over this time, individual effluent metals including cadmium, chromium, copper, silver, and lead have been reduced by greater than 99%, nickel by 96%, and zinc by 96% from historical levels.

Determination of Hazardousness

During this reporting period, OC San's biosolids pollutant concentrations were well below the state and federal maximum contaminant concentrations for being determined as hazardous waste.

Contractor Oversight Program

OC San performed five contractor site and 18 hauling inspections during 2024. There was also one notice of violation (NOVs) issued to a biosolids contractor by the Central Valley Regional Water Quality Control Board (CVRWQCB).

Section 2. Biosolids Regulatory Requirements

OC San treats and manages its biosolids in accordance with OC San's National Pollution Discharge Elimination System (NPDES) Permit, Arizona Administrative Code Title 18, Ch. 9, Article 10 (R18-9), and United States Environmental Protection Agency (EPA) Code of Federal Regulations (CFR) Title 40 Part 503.

This annual compliance report summarizes OC San's biosolids management activities and compliance data for the reporting period of January 1 to December 31, 2024.

2.1 NPDES Permit Requirements

This section is a summary of the biosolids program requirements contained in OC San's NPDES Permit No. CA0110604 Order No. R8-2021-0010 (Permit), effective August 1, 2021, jointly issued by the Santa Ana Regional Water Quality Control Board (SARWQCB) and EPA (Region IX). The requirements for the biosolids program are listed in Sections VI and VII of the Permit, as well as Attachment E and Attachment G. The requirements are shown below, using the corresponding numeration found in the Permit. Each requirement is followed by a summary of the activity that has resulted in OC San's compliance with Permit requirements, or a reference may be given where additional information can be found in this annual report

Section VI. Provisions, A. Standard Provisions, 4f.

Collected screenings, sludge, and other solids removed from liquid wastes shall be managed in accordance with federal, state, and local regulations (see Attachment G – Biosolids).

OC San has an ongoing commitment to meet the provisions of this requirement, and all biosolids requirements are enforced as discussed throughout this report.

Section VII. Provisions, C. Special Provisions, 6. Special Provisions for Publicly Owned Treatment Works (POTWs), b. Biosolids

The Discharger shall manage its sludge and biosolids in accordance with federal regulations (40 CFR § 257, 258, and 503) and the requirements specified in Attachment G of this Order/Permit.

OC San is dedicated to fulfilling this regulatory requirement and adherence to all biosolids requirements is stated throughout the report.

Attachment E – Monitoring and Reporting Program (MRP), XII. Reporting Requirements, D. Other Reports, 2. Biosolids Report

By February 19th of each year, the Discharger shall submit an annual biosolids report into USEPA's CDX electronic reporting system, with an electronic copy to the Santa Ana Water Board by email at santaana@waterboards.ca.gov, for the period covering the previous calendar year (January 1 through December 31). The annual reports shall contain, but not be limited to, the information required in the attached Biosolids Reporting Requirements (Attachment G), or an approved revised version thereof. If the Discharger is not in compliance with any conditions or requirements of this Order/Permit, the Discharger shall include the reasons for noncompliance and shall state how and when the Discharger will comply with such conditions and requirements.

OC San was in full compliance with all conditions and requirements of the Permit. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix D contains the submitted EPA CDX electronic report plus this entire report is emailed to the SARWQCB and EPA regulators.

Attachment G – Biosolids, VI. Reporting Requirements, A.

The report shall include the tonnages of biosolids (reported in dry metric tons, 100% dry weight), that were land applied (without further treatment by another party), land applied after

further treatment by another preparer, disposed in a sludge-only surface disposal site, sent to a landfill for alternative cover or fill, stored on site or off site, or used for another purpose.” (NPDES Permit, Attachment G, Sect. VI.A)

The land-applied biosolids tonnage information is contained in Section 4, Table 2 (Biosolids Managed Tonnage Distribution), and Appendix D (EPA Biosolids Annual Report Electronic Forms) of this annual report.

Attachment G – Biosolids, VI. Reporting Requirements, A.1.

Monitoring results from laboratories (results only, QA/QC pages not required). Copies of original lab reports must be available upon request and confirm the results are on a 100% dry weight basis. Lab reports for fecal coliforms must show the time the samples were collected, and the time analysis was started.

Laboratory reports are available on OC San’s Laboratory Information Management Systems (LIMS) internal network.

Attachment G – Biosolids, VI. Reporting Requirements, A.2.

If operational parameters were used to demonstrate compliance with pathogen reduction and vector attraction reduction, the minimum mean of these parameters for each sampling period (i.e., minimum mean cell residence times (MCRTs) and temperatures).

The operational parameters used are contained in the Biosolids Monthly Compliance Reports (Appendix A) of this annual report.

Attachment G – Biosolids, VI. Reporting Requirements, A.3.

If biosolids are stored on-site or off-site for more than 2 years, the information required in 40 CFR § 503.20(b) to demonstrate that the storage is temporary.

This requirement is not applicable to OC San since no biosolids are either stored on-site or off-site.

Attachment G – Biosolids, VI. Reporting Requirements, B.

If biosolids were land applied, the Discharger shall have the person applying the biosolids submit a pdf report to USEPA and State agency showing the name of each field; location, ownership, size in acres; the dates of applications, seedings, harvesting; the tonnage applied to field, in actual and dry weight; the calculated Plant Available Nitrogen; and copies of applicator’s certifications of management practices and site restrictions.

OC San’s contractor, Tule Ranch/Ag-Tech, is required to independently submit biosolids management information to EPA and ADEQ regulators.

2.2 Arizona Administrative Code Title 18 Requirements

R18-9-1014 – Reporting, A-D.

A person who prepares biosolids for application shall provide the applicator with the necessary information to comply with this Article including the concentration of pollutants listed in R18-9-1005 and the concentration of nitrogen in the biosolids.

A transporter shall report spills to the Department under R18- 9-1011(D).

A bulk applicator of biosolids other than exceptional quality biosolids shall provide the land owner and lessee of land application sites with information on the concentrations of the pollutants listed in R18-9-1005 and loading rates of biosolids applied to that site, and any applicable site restrictions under R18-9-1009.

A bulk applicator of biosolids other than exceptional quality biosolids shall report to the Department if 90% or more of any cumulative pollutant loading rate has been used at a site.

OC San works closely with the transporters and management facilities to ensure that exceptional quality biosolids are produced and that information regarding the concentrations of pollutants listed in R18-9-1005 are provided. In addition, OC San verifies that any violations and/or reports of spills are provided to the ADEQ.

R18-9-1014 – Reporting, F-G.

On or before February 19 of each year, a person preparing biosolids in a Class I Sludge Management Facility, POTW with a design flow rate equal to or greater than one million gallons per day, or POTW that serves 10,000 people or more, that are applied to land, shall, by letter or on a form provided by the Department, report to the Department all the following applicable information regarding their activities during the previous calendar year: 1. The amount of biosolids received if the preparer purchased or received the biosolids from another preparer or source; 2. The amount of biosolids produced (tons or kilograms); 3. The amount of biosolids distributed; 4. The concentrations of the pollutants listed in R18-9-1005 (in milligrams per kilogram of biosolids on a dry-weight basis); 5. The pathogen treatment methodologies used during the year, including the results; and 6. The vector attraction reduction methodologies used during the year, including the results.

All annual self-monitoring reports shall contain the following certification statement signed by a responsible official: "I certify, under penalty of law, that the information and descriptions, have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate the information used to determine whether the applicable biosolids requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

OC San was in full compliance with all conditions and requirements of the Arizona Administrative Code Title 18 Requirements. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix E contains the ADEQ Biosolids or Sewage Sludge Annual Report Form, which includes the certification statement above, plus this entire report is emailed to the ADEQ regulators.

2.3 40 CFR Part 503 Requirements

§ 503.18 – Reporting

Class I sludge management facilities, POTWs (as defined in [§ 501.2 of this chapter](#)) with a design flow rate equal to or greater than one million gallons per day, and POTWs that serve 10,000 people or more shall submit a report on February 19 of each year. As of December 21, 2016, all reports submitted in compliance with this section must be submitted electronically by the operator to EPA when the Regional Administrator is the Director in compliance with this section and [40 CFR part 3](#) (including, in all cases, subpart D to part 3), [40 CFR 122.22](#), and [40 CFR part 127](#). Otherwise, as of December 21, 2025, or an EPA-approved alternative date (see [40 CFR 127.24\(e\)](#) or [\(f\)](#)), all reports submitted in compliance with this section must be submitted electronically in compliance with this section and [40 CFR part 3](#) (including, in all cases, subpart D to [40 CFR part 3](#)), [40 CFR 122.22](#), and [40 CFR part 127](#). [40 CFR part 127](#) is not intended to undo existing requirements for electronic reporting. Prior to the compliance deadlines for electronic reporting (see Table 1 in [40 CFR 127.16](#)), the Director may also require operators to electronically submit annual reports under this section if required to do so by State law.

OC San was in full compliance with all conditions and requirements of 40 CFR Part 503 requirements. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix D contains the submitted EPA CDX electronic report plus this entire report is emailed to the EPA regulators.

Section 3. Biosolids Production

During the 2024 annual reporting period, Reclamation Plant No. 1 treated an average of 113 MGD of wastewater and Reclamation Plant No. 2 treated an average of 79 MGD, producing a combined total of 185,192 wet tons of biosolids (43,116 dry metric tons), which equates to an average of 506 wet tons per day of biosolids including digester cleanings managed in compliance with “Class B” biosolids management practices as defined in 40 CFR Part 503.

Dewatered biosolids averaged 25% total solids at Plant No. 1 and 27% total solids at Plant No. 2. Detailed data, including monthly averages, annual totals, and analytical results can be viewed in Figure 1 and Table 2 below, as well as in Appendices A, B, C, and D.

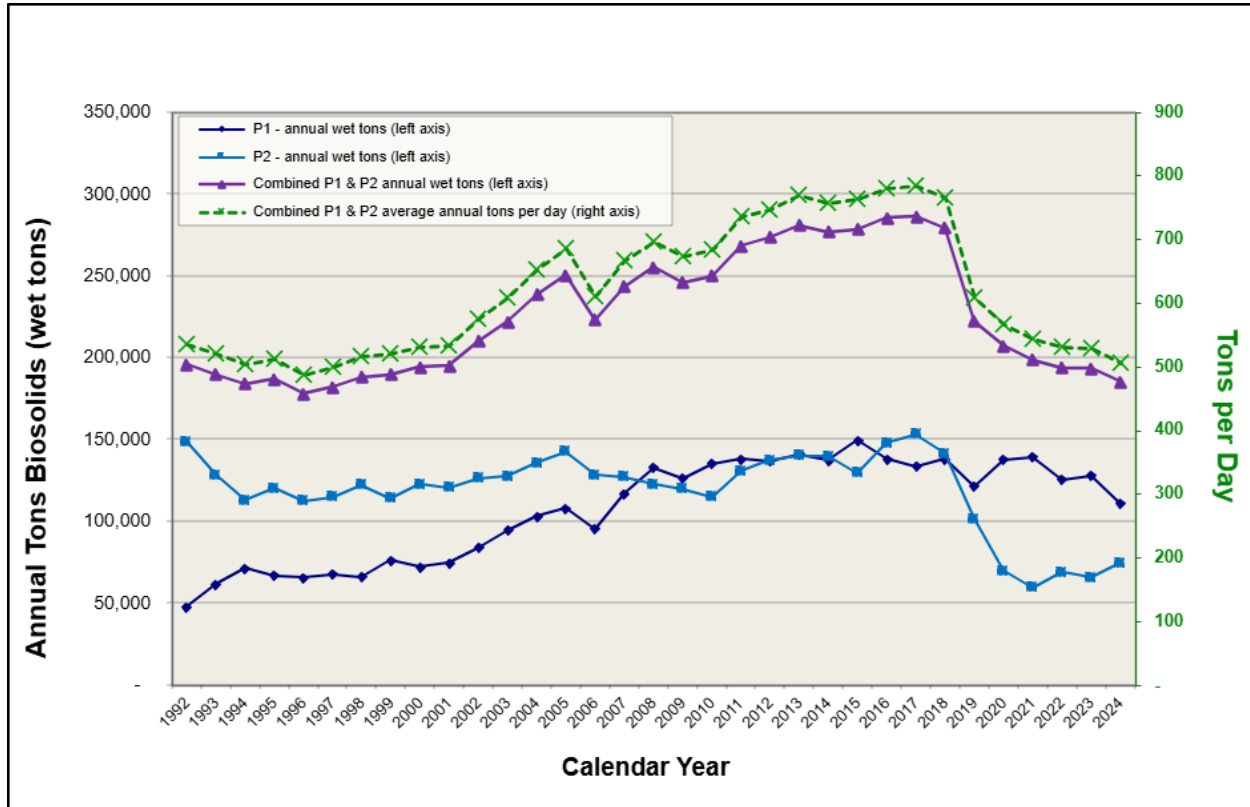


Figure 1 - Biosolids Production History January 1992 – December 2024 (not including digester cleanings)

For this annual reporting period, OC San’s biosolids met the following regulatory standards and/or criteria:

- OC San’s biosolids were digested for at least 15 days at a minimum of 95 degrees Fahrenheit, with a volatile solids destruction of at least 38%.
- OC San’s anaerobically digested biosolids met compliance with the “Class B Pathogen Reduction” and “Vector Attraction Reduction” definition for “Class B” biosolids as defined in 40 CFR Part 503.32(b)(3) (PSRP 3) and 503.33(b)(1).
- Tule Ranch-AgTech’s standard operating procedure includes biosolids incorporation within six (6) hours, which meets 40 CFR Part 503.33(b)(10) requirement for “Vector Attraction Reduction”. This added redundancy is critical in the case of rare events when OC San experiences challenges meeting the Vector Attraction Reduction standard at the plants.
- OC San’s compost contractors’ processes meet Class A standards as defined in 40 CFR Part 503.

Section 4. Biosolids Management

OC San is committed to supporting beneficial reuse of biosolids (OC San Resolution 13-03). During this reporting period, OC San recycled 43,069 dry tons (99.9%) of OC San’s biosolids, which included digester cleaning materials. Due to plastic contamination discovered during digester cleaning in August and September 2024, the remaining 47 dry tons (0.1%) of biosolids were sent to a landfill (Holloway). Refer to Figure 2 Distribution Map.

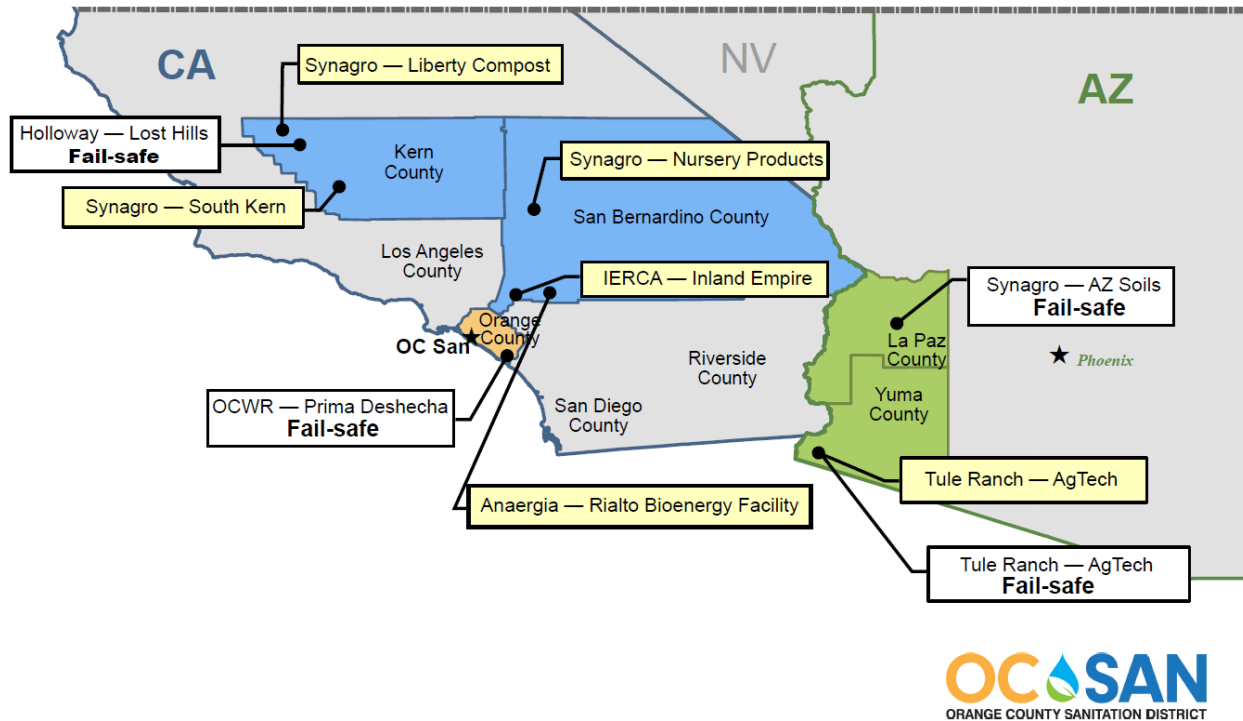


Figure 2 - Orange County Sanitation District Biosolids Allocations by Destination

The contractors listed below in Table 1 have provided OC San with biosolids management diversification and reliability. The contractors submit their annual compliance reports directly to EPA, in accordance with OC San’s NPDES permit requirements.

Table 1 - Biosolids Management Contractors

<p>Synagro - Nursery Products PO Box 1439 Helendale, CA 92342 Contact: Venny Vasquez, Manager Phone: (760) 265-5210 Email: vasquez@synagro.com</p>	<p>Synagro – South Kern Compost Manufacturing Facility PO Box 265 Taft, CA 93268 Contact: Rob Rankin, Manager Phone: (661) 765-2200 Email: rkin@synagro.com</p>
<p>Synagro - Liberty Compost 12421 Holloway Rd. Lost Hills, CA 93249 Contact: Wilson Nolan, Manager Phone: (661) 619-7320 Email: wnolan@synagro.com</p>	<p>Synagro – Arizona Soils 5615 S. 91st Avenue Tolleson, AZ 85353 Contact: Brian Millage, Manager Phone: (623) 236-0974 Email: bmillage@synagro.com</p>

<p>Tule Ranch / Ag-Tech 4324 E. Ashlan Ave. Fresno, CA 93726 Contact: Kurt Wyrick, Controller Phone: (559) 970-9432 Email: kurt@westexp.com</p>	<p>Inland Empire Regional Composting Authority 12645 6th Street Rancho Cucamonga, CA 91739 Contact: Arin Boughan, Manager Phone: (909) 993-1513 Email: aboughan@ieua.org</p>
<p>Rialto Bioenergy Facility 503 East Santa Ana Avenue, Rialto, CA 92316 Contact: Jim Philipps, Director Sales & Marketing Phone: (415) 463-1333 Email: Jim@SevanaBioenergy.com</p>	<p>Holloway Environmental 13850 Holloway Rd, Lost Hills, CA 93249 Contact: Giselle Valdovinos, Business Development Associate, Environmental Phone: (661) 758-6484 Email: giselle.valdovinos@hmholloway.com</p>

For this reporting period, OC San's biosolids were beneficially reused as illustrated in Table 2. More detailed breakdowns are available in Appendices A and D.

Table 2 - Biosolids Managed Tonnage Distribution

Quantity Generated	Plant No. 1	Plant No. 2	Total	Relative %
Tule Ranch AZ (land application) (wet tons)	29,021	53,885	82,906	44.8
Tule Ranch AZ (land application) (dry metric tons)	6,445	13,349	19,794	
Synagro - Liberty Compost CA (wet tons)	23,652	7,321	30,973	16.7
Synagro - Liberty Compost CA (dry metric tons)	5,320	1,805	7,125	
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0.0
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	
Synagro – Nursery Products CA (compost) (wet tons)	29,918	3,944	33,862	18.3
Synagro – Nursery Products CA (compost) (dry metric tons)	6,665	975	7,640	
Synagro – South Kern – compost (wet tons)	24,933	4,133	29,066	15.7
Synagro – South Kern – compost (dry metric tons)	5,539	1,021	6,560	
Synagro – AZ Soils – compost (wet tons)	0	0	0	0.0
Synagro – AZ Soils – compost (dry metric tons)	0	0	0	
Inland Empire Regional Composting (wet tons)	3,022	5,194	8,215	4.4
Inland Empire Regional Composting (dry metric tons)	640	1,309	1,949	
Holloway Environmental (wet tons)	169	0	169	0.1
Holloway Environmental (dry metric tons)	47	0	47	
Total Wet Tons	110,715	74,4777	185,192	100.0
Total Dry Metric Tons	24,657	18,459	42,953	

Section 5. Control of Pollutants

OC San's Biosolids Monthly Compliance Reports (Appendix A) compare the limits of the pollutants listed in 40 CFR 503 to OC San's biosolids concentrations for each plant. During this reporting period, OC San has met all regulated pollutants limits. The average concentrations of all pollutants in OC San's biosolids are typically an order of magnitude below the conservative "Table 1 Ceiling Limits" and "Table 3 Exceptional Quality Limits" found in 40 CFR Part 503.

Even though Orange County's population has grown, OC San's pretreatment program has been successful in reducing the average mass of metals entering OC San's collection system by 90% and metals discharged to the marine environment by 99% since the program's inception in 1976, thereby ensuring OC San's biosolids can be recycled to farm fields. Appendix B contains the biosolids chapter excerpt from the [OC San Pretreatment Program Annual Report](#), Chapter 8 that includes graphs of metals in OC San's biosolids.

Section 6. Determination of Hazardousness

During this reporting period, OC San's biosolids pollutant concentrations were well below the state and federal maximum contaminant concentrations for being determined as hazardous waste. Reference OC San's biosolids monitoring data in Appendix C - Summary of Biosolids Monitoring Results.

To ensure OC San's biosolids program continues to meet the definition of biosolids per 40 CFR 503, OC San verifies its biosolids are non-hazardous annually. Although OC San does not anticipate its sewage sludge to ever be classified as hazardous, should that highly unlikely scenario occur, the affected biosolids will be managed via 40 CFR 261 and disposed of in accordance with the Resource Conservation and Recovery Act (RCRA). Relevant regulations regarding hazardous waste are also found in the California Code of Regulations (CCR) Title 22.

OC San's biosolids have been determined to be non-hazardous based on the following evaluation:

- OC San's biosolids are not ignitable, corrosive, reactive, nor toxic in accordance with the federal regulatory definitions in 40 CFR Part 261 and CCR Title 22.
- OC San performs annual testing of an extensive list of organic and inorganic compounds to verify the continued non-hazardousness of our biosolids (see Appendix C).
- When the compounds are non-detectable, OC San enters the method detection limit in the evaluation spreadsheet that compares the data to regulatory limits.

Section 7. Biosolids Management System

The following sections highlight OC San's continued commitment to the biosolids management system.

7.1 Communications

OC San has continued transparent communications during this reporting period. OC San posts timely updates including updated OC San resources such as listed below:

- Monthly compliance reports and data (www.ocsan.gov/biosolids),
- Annual compliance reports (www.ocsan.gov/503),
- Biosolids Contractor Requirements document (www.ocsan.gov/bcr), and
- Biosolids allocation map (www.ocsan.gov/map).

7.2 Contractor Oversight Program

OC San enforces a strong contractor oversight program. During this reporting period, OC San conducted the following:

- Performed 18 hauling inspections in 2024.
- Performed five contractor site inspections in 2024.
- Reviewed Local Enforcement Agency (LEA) reports and monthly contractor reports to maintain an ongoing understanding of each contractor compliance status. OC San is not aware of any notices of violation (NOV) issued to the contractors by LEAs.
- A NOV was issued to one biosolids contractors by the CVRWQCB during this annual reporting period. OC San has closely monitored the issue and maintained communications with the contractor during the process to track progress in addressing this NOV, which is actively being addressed:
 - Liberty Compost received an NOV from the CVRWQCB for ponded water between windrows and along interior roadways observed during the annual RWCQB inspection conducted on April 16, 2024. Liberty Compost has met the submittal requirements of the NOV and developed SOPs and continuous workplans to address and maintain the site as required. OC San inspected the site on November 14, 2024 and observed the efforts implemented towards maintaining the site to address these ponding issues.



Environmental Services Department

18480 Bandilier Circle
Fountain Valley, California 92708-7018
714.962.2411

www.ocsan.gov

Appendix A. Biosolids Monthly Compliance Reports,
January – December 2024

Appendix Table A - 1 OC San Biosolids Wet and Dry Tonnage Distribution, Reclamation Plant No. 1, Fountain Valley, CA

Biosolids Generated	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Avg
Biosolids Total Solids (%)	25	24	25	25	26	25	26	24	24	23	24	23	25
Management Locations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Tule Ranch AZ – land application (wet tons)	2,398	2,485	2,343	2,560	1,971	2,447	2,551	2,630	2,530	2,403	2,430	2,275	29,021
Tule Ranch AZ – land application (dry metric tons)	544	541	531	581	465	555	602	572	551	501	529	475	6,445
Synagro - Liberty Compost CA (wet tons)	1,379	1,858	1,734	1,502	505	1,536	1,915	2,135	2,320	2,883	1,904	2,523	22,196
Synagro - Liberty Compost CA (dry metric tons)	313	405	393	341	119	348	452	465	505	601	414	526	4,882
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Synagro – Nursery Products CA – compost (wet tons)	3,268	3,601	3,494	3,420	2,420	2,128	1,869	1,948	1,798	1,981	1,922	2,070	29,918
Synagro – Nursery Products CA – compost (dry metric tons)	741	784	792	775	571	482	441	424	391	413	418	432	6,665
Synagro – South Kern – compost (wet tons)	2,461	2,111	1,760	1,808	1,987	1,936	2,284	2,338	2,215	1,898	1,829	2,306	24,933
Synagro – South Kern – compost (dry metric tons)	558	460	399	410	469	439	539	509	482	396	398	481	5,539
Synagro – AZ Soils – compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Synagro – AZ Soils – compost (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Inland Empire Regional Composting (wet tons)	24	0	0	0	0	0	0	49	49	1,032	943	925	3,022
Inland Empire Regional Composting (dry metric tons)	5	0	0	0	0	0	0	11	11	215	205	193	640
Total Wet Tons	9,530	10,055	9,330	9,290	6,883	8,047	8,619	9,100	8,911	10,198	9,027	10,098	109,089
Total Dry Metric Tons	2,161	2,189	2,116	2,107	1,623	1,825	2,033	1,981	1,940	2,127	1,965	2,107	24,172
Digester Cleanings	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Digester(s)	13							5	11				
Digester Cleaning Total Solids Percents	65							31	31				
Holloway, CA (landfill) (wet tons)	0	0	0	0	0	0	0	46	122	0	0	0	169
Holloway, CA (landfill) (dry tons)	0	0	0	0	0	0	0	13	34	0	0	0	47
Synagro - Liberty Compost (compost) (wet tons)	101	0	0	0	0	0	0	1287	69	0	0	0	1,457
Synagro - Liberty Compost (compost) (dry metric tons)	60	0	0	0	0	0	0	358	19	0	0	0	437
Digester Cleaning Total Wet Tons	101	0	0	0	0	0	0	1,333	191	0	0	0	1,625
Total Dry Metric Tons	60	0	0	0	0	0	0	371	54	0	0	0	485
Total Wet Tons (Biosolids plus Digester Cleanings)	9,632	10,055	9,330	9,290	6,883	8,047	8,619	10,432	9,103	10,198	9,027	10,098	110,715
Total Dry Metric Tons (Biosolids plus Digester Cleanings)	2,221	2,189	2,116	2,107	1,623	1,825	2,033	2,352	1,994	2,127	1,965	2,107	24,657

Appendix Table A - 2 OC San Biosolids Wet and Dry Tonnage Distribution, Wastewater Reclamation Plan No. 2, Huntington Beach, CA

Biosolids Generated	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Avg
Biosolids Total Solids (%)	26	29	28	28	27	28	28	28	28	25	27	26	27
Management Locations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Tule Ranch AZ – land application (wet tons)	4,315	4,355	4,650	4,587	5,410	4,556	4,568	4,285	3,879	4,943	4,174	4,163	53,885
Tule Ranch AZ – land application (dry metric tons)	1,018	1,146	1,181	1,165	1,325	1,157	1,160	1,088	985	1,121	1,022	982	13,349
Synagro - Liberty Compost CA (wet tons)	303	176	405	887	1,472	863	536	534	331	759	326	729	7,321
Synagro - Liberty Compost CA (dry metric tons)	71	46	103	225	360	219	136	136	84	172	80	172	1,805
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Synagro – Nursery Products CA – compost (wet tons)	426	302	705	50	151	202	429	427	200	401	301	349	3,944
Synagro – Nursery Products CA – compost (dry metric tons)	100	79	179	13	37	51	109	109	51	91	74	82	975
Synagro – South Kern – compost (wet tons)	177	277	251	277	835	354	126	505	328	427	201	375	4,133
Synagro – South Kern – compost (dry metric tons)	42	73	64	70	205	90	32	128	83	97	49	88	1,021
Synagro – AZ Soils – compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Synagro – AZ Soils – compost (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Inland Empire Regional Composting (wet tons)	505	481	283	528	556	488	727	824	776	0	0	24	5,194
Inland Empire Regional Composting (dry metric tons)	119	126	72	134	136	124	185	209	197	0	0	6	1,309
Biosolids Total Wet Tons	5,727	5,591	6,294	6,330	8,424	6,463	6,387	6,576	5,514	6,530	5,002	5,640	74,477
Total Dry Metric Tons	1,350	1,471	1,598	1,608	2,063	1,641	1,622	1,670	1,400	1,481	1,225	1,330	18,459
Digester Cleanings	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Digester(s)													
Digester Cleaning Total Solids Percents													
Synagro - Liberty Compost (compost) (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Synagro - Liberty Compost (compost) (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0
Digester Cleaning Total Wet Tons	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dry Metric Tons	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Wet Tons (Biosolids plus digester cleanings)	5,727	5,591	6,294	6,330	8,424	6,463	6,387	6,576	5,514	6,530	5,002	5,640	74,477
Total Dry Metric Tons (Biosolids plus digester cleanings)	1,350	1,471	1,598	1,608	2,063	1,641	1,622	1,670	1,400	1,481	1,225	1,330	18,459

Appendix B. Pretreatment Program Annual Report, Chapter 8
Solids Management Program

Appendix C. Summary of Biosolids Monitoring Results

Appendix D. EPA Biosolids Annual Report Electronic Forms

Appendix E. ADEQ Biosolids Annual Report Form
