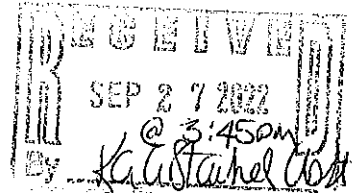


**WATER POLLUTION CONTROL AUTHORITY
TOWN OF SOUTH WINDSOR**



**REGULAR MEETING
MADDEN ROOM
SOUTH WINDSOR TOWN HALL**

AGENDA

**TUESDAY, OCTOBER 4, 2022
7:00 P.M.**

- A. Roll Call**
- B. Acceptance of Minutes of Previous Meetings**
 - 1. September 6, 2022 Regular Meeting
- C. New Business**
- D. Communications and Reports**
 - 1. Annual Report
 - 2. Superintendent Report
- E. Public Participation (Items not on the agenda)**
- F. Bills, Change Orders, Disbursements**
- G. Unfinished Business**
 - 1. Odor Control Improvements
- H. Executive Session**
- I. Adjournment**

**WATER POLLUTION CONTROL AUTHORITY
TOWN OF SOUTH WINDSOR**



**REGULAR MEETING
SOUTH WINDSOR TOWN HALL
MADDEN ROOM**

**MINUTES
OCTOBER 4, 2022 AT 7:00 PM**

PAGE 1

A. Roll Call

Members Present: Stephen Wagner, Joseph Botti, Michael Lyon, and Bala Ramasamy

Members Absent: Toby Lewis, and James Murray

Alternates Present: David Basile sitting for James Murray
Vicki Paliulis sitting for Toby Lewis

Alternates Absent:

Staff Present: Lisa Giroux, Substitute Recording Secretary
Jeff LeMay, Plant Supervisor
Tony Manfre, Superintendent of Pollution Control
Vincent Stetson, Director of Public Works

B. Acceptance of Minutes of Previous Meetings

1. September 6, 2022 Regular Meeting

Motion to accept the minutes of the September 6, 2022 Regular Meeting as presented.

The motion was made by Mr. Michael Lyon and seconded by David Basile.
The motion carried unanimously.

C. New Business

None

D. Communications and Reports

1. Annual Report

Included with the Agenda was a copy of two annual reports (see Exhibit A).

Mr. Manfre explained that this year the Pollution Control Division annual report provides an update on the Clark Street, Benedict Drive, and Pleasant Valley pump stations, also, on the ARPA funding and the LodeStar solar project. The WPCA annual report highlights the use of solar energy to help minimize electrical costs; the allocation of ARPA funds towards three projects and how they helped prevent large rate increases and the WPCA budget and approvals for connection to the town's sanitary sewer system.

2. Superintendent Report

Included with the Agenda was a copy of the Superintendent's report (see Exhibit B). Mr. Tony Manfre presented his report.

**WATER POLLUTION CONTROL AUTHORITY
TOWN OF SOUTH WINDSOR**

**REGULAR MEETING
SOUTH WINDSOR TOWN HALL
COUNCIL CHAMBERS**

**DRAFT MINUTES
OCTOBER 4, 2022 AT 7:00 PM
PAGE 2**

Mr. Manfre reported that the Commercial Sewer Collection Rate for the 2022 Grand List is 99.14% and the outstanding balance is \$15,577.38. The Residential Sewer Collection Rate is 98.63% and the outstanding balance is \$112,497.21.

Regarding the LED Lighting Upgrade at the treatment plant, Chairman Wagner asked if the outside lighting is going to be dark sky compliance. Mr. Jeff Lemay responded that the outside lighting is going to be on photo cells and motion sensors; they are not just going to be on. An official agreement has not been executed, therefore, Mr. Lemay will ask if the lighting is going to be dark sky compliance.

Chairman Wagner also asked if the Lockout/Tagout program was efficient. Mr. Lemay responded that they are going through an OSHA consultation and during the first couple of meetings they discussed the Pollution Control Confined Space Program which was sort of built off of the Town's program. In working with OSHA it was realized that it will make more sense for the Pollution Control to have their own policy and a Standard Operating Procedures to follow. This process has been completed and the staff have been trained. Revisions have been made to the existing Water Pollution Control Lockout/Tagout policy and will be reviewed by OSHA for any recommendations.

In regards to the sewer user fees collection efforts, Chairman Wagner expressed that he received one complaint from one Town Constable that they are not asking them for their service. Mr. Manfre responded that to his knowledge the Collector of Revenue is using the Town Constables, therefore, he will ask the Collector of Revenue.

E. Public Participation (Items not on the agenda)

None

F. Bills, Change Orders, Disbursements

None

G. Unfinished Business

1. Odor Control Improvement Update (Discussion)

During the last meeting this matter was discussed and members of the Authority had questions about the media disposal and maintenance contracts. As previously mentioned, Mr. Manfre explained that he received a proposal to install Pure Air Drum Scrubbers on the gravity thickeners (see Exhibit C). The system draws air from the tank which then is filtered through a customized media that targets specific odor compounds. This system is designed for smaller applications such as the gravity thickener tanks. The media lasts 6 – 24 months depending on loading. The system will cost \$61,000 to install. The Town's purchasing policy requires bids for anything over \$5,000 unless the Authority waives the bidding process. Mr. Manfre recommended waiving the bidding process so that the units can be installed before the end of the year. Regarding some of the questions previously asked by the Authority

**WATER POLLUTION CONTROL AUTHORITY
TOWN OF SOUTH WINDSOR**

**REGULAR MEETING
SOUTH WINDSOR TOWN HALL
COUNCIL CHAMBERS**

**DRAFT MINUTES
OCTOBER 4, 2022 AT 7:00 PM
PAGE 3**

about the media disposal and maintenance contracts, Mr. Manfre responded that yes, the product is made in the USA. They have units in the State of Connecticut and Massachusetts. Yes, the media is non-toxic and safe to dispose of. The treatment plant staff can do the change out of the media.

Ms. Vicki Paliulis asked if the odors are constant. Mr. Manfre responded that they've been taking H₂S readings daily and they've been able to make a lot of adjustments to reduce the H₂S levels down particularly in the sludge storage tanks which they've been focusing on. Mr. Lemay explained that there's definitely higher concentrations of odors when materials have been pumped from the gravity thickeners to the storage tanks.

Mr. David Basile expressed that based on the complaints received it feels that they need to get away from the bio filter, therefore, he hopes that this system will take care of the issue.

Chairman Wagner expressed that he believes the town's legislators will be able to help the Authority with funds to get an alternate plan in line. He asked Mr. Manfre to get a scope of work for submittal. Chairman Wagner asked what the justification for sole source acquisition is. Mr. Manfre responded that it will save at least three months with the bidding process; is a local consultant; and they will get the system installed by the end of this year rather than the spring time.

Motion to accept proposal and request sole source acquisition and to waive competitive bidding based on the urgency to install the Pure Air Drum Scrubber system on the gravity thickeners.

The motion was made by Michael Lyon and seconded by David Basile.
The motion carried unanimously.

H. Executive Session

None

I. Adjournment

Motion to adjourn the meeting at 7:44 p.m.

The motion was made by Ms. Vicki Paliulis and seconded by Bala Ramasamy.
The motion carried unanimously.

Respectfully Submitted,

Lisa Giroux
Substitute Recording Secretary

POLLUTION CONTROL FISCAL YEAR 2021-2022 REPORT

THE DIVISION OF WATER POLLUTION CONTROL is responsible for the collection, treatment, and discharge of wastewater. Activities include: wastewater treatment, sludge disposal, laboratory analysis, sewer line cleaning, inspection and repair, as well as treatment plant and pump station maintenance. This Division also assists the Parks & Recreation Department for the mechanical maintenance of the Veteran's Memorial Park swimming pool pump and filtration system.

During the past year, the Division treated 1.142 billion gallons of wastewater at a treatment efficiency of 99% Biochemical Oxygen Demand, 99% Total Suspended Solids and discharging an average of 100 pounds of nitrogen per day. The Town is required to maintain a treatment efficiency of 85% and discharge no more than 106 pounds of nitrogen per day under the current discharge permit issued by the Connecticut Department of Energy and Environmental Protection (DEEP). In treating the wastewater, 854 dry tons of solids were removed and transported to the Hartford Metropolitan District Facility (MDC) for final processing in accordance with the Town's participation in a cooperative regional sludge management program. Wastewater service is provided to 8,587 residences and 367 industrial and commercial businesses in South Windsor and Manchester. Service is provided to out of town properties in accordance with the provisions of inter-town sewer agreements. Through such agreement's communities are benefited by limiting the number of expensive pump stations which would otherwise have to be constructed and operated.

The Clark Street, Benedict Drive, and Pleasant Valley Pump Stations are in the design phase of a comprehensive rehabilitation. Each pump station is reaching its designed life expectancy. The smallest of the three pump stations to be upgraded is Pleasant Valley which accepts residential flow from the western portions of the Pleasant Valley Road area. The Benedict Drive Pump Station is the Town's second largest pump station and serves the eastern portion of town made up of mainly residential neighborhoods. Clark Street is the Town's largest pump station which accepts flow from the Benedict Drive Pump Station, portions of Manchester, and the south easterly section of South Windsor. This amounts to the conveyance of almost 50% of the Town's wastewater to the treatment plant located on Vibert Road. Construction is expected to begin in 2023.

In August the Water Pollution Control Authority accepted the Town's allocation of \$2,500,000 in American Rescue Plan Act (ARPA) funds which are funding three critical projects to improve the Town's sewer infrastructure and treatment of wastewater. "Phase IV Sewer and Manhole Rehabilitation" consisted of lining 40 pipe segments of 8"-30" sewer pipe and rehabilitating 28 manholes at a cost of \$1,100,000. Another \$1,000,000 was approved to fund upgrading the treatment plant's 20 year old Ultraviolet disinfection system. The design of the new system is underway and construction is expected to begin in 2023. The third project being supported by ARPA is the installation of a 16" underground valve on the Clark Street Pump Station's force main. The valve is a necessary appurtenance to isolate the pump station from the force main to replace failing valves inside the station and to prepare for the station upgrade.

LodeStar Energy announced that they successfully energized the Platt Hill Road Solar Project in Winchester in December. The project will deliver 33% of its net metering credits to the South Windsor WPCF. This is expected to save over \$500,000 over the next 20 years.

Anthony E. Manfre, Superintendent of Pollution Control

WATER POLLUTION CONTROL AUTHORITY - The Water Pollution Control Authority (WPCA) is a statutorily independent entity having complete jurisdiction over all elements of the sanitary sewer system within the Town. It is responsible for the proper functioning and continuous operation of South Windsor's sanitary sewage system which is essential for public health and safety, economic development, environmental protection, and the quality of life for those living and working in our Town. The Authority consists of seven (7) members and two (2) alternates appointed by the Town Council for staggered terms of four (4) years. Its members are citizens of the Town who volunteer their time to oversee and implement policies created by the Authority to protect the operation of the sewerage system, the environment, and ultimately, public health. By contract, it is administered through the municipal staff of the Town as the most cost-efficient means of executing legal mandates and daily operations. The Authority authorizes the annual budget, levies benefit assessments, establishes fair and reasonable sewer user charges, approves connections and expansions to the system, and applies for state and federal funds as authorized by Chapter 103 of the Connecticut General Statutes and Town of South Windsor Ordinances.

The thirteen staff, including eleven licensed operators, are responsible for the treatment plant, eleven pump stations, and one hundred thirty miles of sewer pipe, including twenty miles of cross-country lines. Together the Authority and Operations staff work as stewards of the treatment system and seek to provide the best value for the ratepayers. Planning for future needs of this complex and widespread system entails a degree of unavoidable uncertainty, including, exposure to unforeseen natural events, accidents, revenue fluctuations, and unplanned maintenance, facility repair, and improvements as the infrastructure ages. As the operation and maintenance of the wastewater treatment plant and collection system is funded

almost entirely through sewer user fees, Authority members establish fair and prudent fiscal policies to ensure adequate funding for proper maintenance, upgrade, repair and replacement of the system's components.

Electric utility costs comprise one of the largest budgetary line items consuming over eight percent of the Operation and Maintenance budget. The Town has contracted with Lodestar Energy to utilize an offsite solar field helping to defray these costs through electrical credits. The solar field became operational in December and the project will deliver 33% of its net metering credits to the South Windsor WPCF.

The Authority has been able to prioritize capital expenditures to prevent significant interruptions in service through a ten-year capital improvement program. When American Recovery Plan Act (ARPA) funds became available the Authority was prepared to allocate the \$2,500,000 that was received to begin three significant projects without impacting the sewer user fee. Phase IV Sewer & Manhole Rehabilitation is the final phase of recommended sewer system improvements from a 2015 sewer evaluation study. The project scope includes lining 40 pipe segments with diameters ranging from 8" to 30" along with rehabilitating 28 manhole structures that are in a deteriorated condition. The Authority approved upgrading the wastewater treatment plant's 20 year old Ultraviolet disinfection system. UV light is used to sterilize remaining organisms that have not been removed through the treatment process. The upgrade is under design and expected to be completed in 2023. The third project funded through ARPA is the installation of a 16" underground force main valve at the Clark Street Pump Station. The valve is vital to bypassing the station for maintenance and for the upgrade which is currently in the design stages.

In addition, the Authority and Operations Staff are in the design phase for improvements in odor control, beginning in Fiscal Year 2022-2023.

The Water Pollution Control Authority set the Fiscal Year 2021-2022 budget of \$5,281,334 of which \$4,129,123 is the operating budget. The remaining funds are allocated to debt service and capital projects. In recent years the Authority has taken proactive measures to rehabilitate the collection system infrastructure and meet reserve funding goals to ensure the stabilization of sewer user fees which has remained at \$415 for the last three years. To ensure that the revenue needs of the facilities are met, the Authority approved a \$10 increase in next years sewer user fees and revised the fee structure for apartment buildings to reflect a more equitable share of their sewer use.

The WPCA approved 3 residential connections and 7 commercial/industrial connections resulting in a total revenue of \$200,360. This included: Connection Charges of \$144,877, Capacity Charges of \$14,080, and Benefit Assessments of \$41,403.

During the Fiscal Year 2021-2022, there were 23 new residential connections and 4 Commercial/Industrial connections made to the public sewer system bringing the total connections to 8,616 residential and 367 commercial/industrial.

In 2015 the WPCA approved the implementation of the sewer user charge discount program for qualified residents. A qualified resident is a residential sewer user who is eligible for property tax relief under the State of Connecticut Qualifying Income for the Elderly and Totally Disabled Tax Relief Program. The application period is from February 1st through May 15th, the same period as the Town's Property Tax Relief Program. Application is made through the Human Services Department. During fiscal year 2021-2022 196 residents participated in the program resulting in \$20,107 in discounted residential fees.

Stephen Wagner, WPCA Chair

WPCA COMMUNICATIONS AND REPORTS

October 4, 2022

The following is a monthly report from the Superintendent of Pollution Control as an appendix to the Water Pollution Control Authority meeting.

General Information

Residential Billing

The residential sewer user bills have been sent out are due by the end of October. The billing list includes 8,672 accounts totaling \$3,685,600. This year 201 account holders qualified for the income eligible discount program costing a total of \$21,483.75. The net residential revenue due to the WPCA is \$3,664,116.25.

Accounts: 8,672

Gross Total: \$3,685,600.00

Discounted: \$ (21,483.75)

Net Total: \$3,664,116.25

LED Lighting Upgrade

We are working with an energy consultant to lower energy costs and improve lighting at the treatment plant. By upgrading the interior and exterior lighting fixtures we will see an annual projected savings of 67,000 kWh. Additionally, Eversource's incentive program is expected to provide \$18,700 towards the upgrade. The return on investment will be 5.7 years.

Treatment Plant and Collection Systems

Treatment Plant

Process

TREATMENT PLANT	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	AVERAGE
AVG FLOW (MGD)	1.92	2.13	2.79	2.92	2.63	2.76	2.61	2.57	2.54	2.39	2.10	3.17	2.54
BOD REMOVAL	98.0%	98.5%	98.5%	98.7%	95.7%	98.7%	98.6%	98.1%	98.9%	99.0%	98.7%	98.4%	98.3%
TSS REMOVAL	98.0%	98.9%	98.8%	99.0%	95.6%	99.0%	98.9%	97.9%	99.0%	99.1%	99.0%	99.1%	98.5%
NITROGEN LBS. (106 LBS. LIMIT)	87	85	113	115	95	87	86	96	84	95	100	85	94
NITROGEN mg/L	3.3	3.8	4.2	4.1	4.2	3.5	3.5	3.7	3.9	4.7	5.5	4.9	4.1

Maintenance

- Repaired valves in control building basement.
- Set up new dissolved oxygen probes and controllers in Aeration Basin 2.
- Replaced failing controller for ORP probes in Anoxic Zone.
- Repaired failing rubber gasket on Primary Clarifier 3 slide gate.

- Repaired crumbling concrete on stairs up to sodium hypochlorite room.
- Began revisions on Emergency Management Plans.
- Began revisions on Lockout/Tagout program as part of ConnOSHA voluntary consultation.
- Began working with CT DEEP, Eversource, and State Emergency Management personnel in working group to help facilitate quicker responses during emergencies, particularly as it pertains to pump stations.

Collection System

COLLECTION SYSTEM	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	TOTAL FT
CCTV (FEET)	0	2,080	2,000	1,200	2,642	1,950	8,538	4,681	0	3,033	5,129	3,695	34,948
Contracted CCTV	9,693	12,783	0	0	0	0	0	0	0	0	0	0	22,476
CLEANING (FEET)	6,050	2,700	4,100	4,000	1,363	1,550	3,677	1,500	1,739	4,413	7,047	6,275	44,414

- Replaced failed pressure transducer at Rye St pump station and ran new conduit and wiring to make the new device accessible from the wet well platform.
- Continued to perform CCTV work and line cleaning on cross country sewer lines.
- Repaired ruptured tubing on sodium hypochlorite system.
- Completed generator and UPS checks at all pump stations.
- Completed line cleaning and inspection of High School lateral for Board of Ed staff.
- Repaired Pump 1 at Avery St pump station after it became detached from the rail. Impeller and volute were replaced as was the pressure transducer.



Damage to the Avery Street pump impeller. The maintenance staff replaced the impeller and volute before putting the pump back in service.



On-call operators responded to an alarm at Avery Street Pump Station to find a pump had detached from the guide rails resulting in pump damage, inoperable level floats and tangled cords.

Emergency Call Outs

EMERGENCY CALL OUTS	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	TOTAL
TREATMENT PLANT	1	2	0	0	0	1	3	0	2	3	2	2	16
PUMP STATIONS	2	0	1	2	2	0	3	0	2	1	5	2	20
SEWER BLOCKAGES	0	0	0	0	1	0	0	0	0	1	0	0	2
CALL BEFORE YOU DIG	0	1	0	0	0	0	0	0	0	1	0	1	3
ODOR COMPLAINT	0	0	1	1	1	2	2	7	5	8	1	0	28

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

Nothing new to report.

Next Steps:

- *Engineer to perform Connecticut Environmental Policy Act (CEPA) Permit Review.*
- *Staff review and final comments.*
- *Submit design to DEEP for review and approval (min. 90-day review).*
- *WPCA and Town Council Resolution to enter into CWF agreement*
- *Bid project.*

Aeration Weir Gate Improvements

The WPCA approved transferring \$750,000 from FY21/22 CIP (Phase IV Part 1 Sewer System Improvements) to complete critical improvements to the aeration basin weir gates.

- Requested proposals for design, bid administration, and construction oversight services for on-call consultants.
- Weston & Sampson provided the most advantageous and cost-effective proposal for the project.
- Coordinating a kick off meeting to design and bid the project.

American Rescue Plan Act (ARPA) Funded Projects

Phase IV Sewer System Improvements

This project has been approved utilizing American Rescue Plan Act funds. The budget for this project is \$1,100,000.

- Manhole rehabilitation has begun.
- Green Mountain Pipeline is behind schedule and submitted an extension for substantial completion.
- Project is expected to be completed by the end of October.

UV Disinfection Upgrade

This project has been approved utilizing American Rescue Plan Act funds. The original budget for this project was \$1,300,000. In February 2022 the Authority approved transferring \$120,000 from this project to the Clark Street Bypass Valve project.

Nothing new to report.

Clark Street Bypass Valve

This project has been approved utilizing American Rescue Plan Act funds. The original budget for this project was \$100,000. In February 2022 the Authority approved transferring \$120,000 from the UV Disinfection Upgrade project to the Clark Street Bypass Valve project.

Nothing new to report.

Collection of Sewer User Fees and Delinquent Accounts

To be reported during the meeting.

Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control

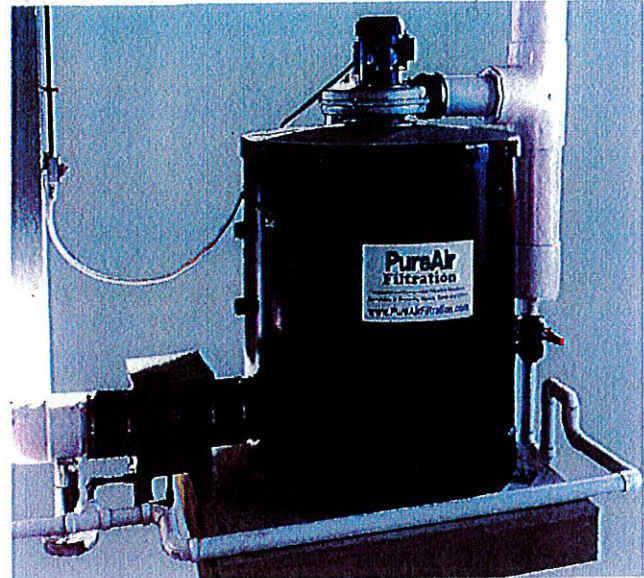
Drum Scrubber (DS)

PureAIR
FILTRATION

Economical, Durable Deep Bed Design

SPECIFICATIONS:

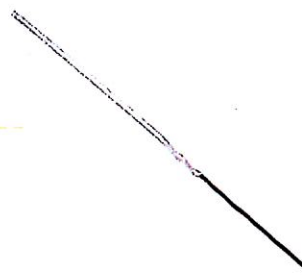
Applications	Wastewater odor removal
Airflow Range	0 CMH (0 CFM) – 2,123.7 CMH (1,250 CFM) <i>*Please review the model selection sheet for more information</i>
Configuration	Vertical airflow
Construction Material	Standard: High-density polyethylene (HDPE) Other options: Stainless Steel, Fiberglass reinforced plastic
Particulate Filtration	Odor Control Applications: Mist & Grease Filter Other Applications: 5 cm (2 in), 30% MERV 8 Prefilter, 15 cm (6 in), 95% MERV 13 Final Filter <i>*Other filter sizes/options available upon request. Please contact the factory for more information.</i>
Blower Configuration	DRAWTHRU: Standard and allows the blower to work in clean air, thus making it last longer and require less maintenance <i>*Redundant blowers & other special options available</i>
Customizable	Multiple sizes and configurations available, reference model selection chart for details. Add-on accessories like sound enclosures are available. Contact factory for more information. <i>*Don't see what you are looking for? PureAir specializes in customization. Contact us with your air filtration needs and we will work with you to find the best solution for your needs.</i>



BENEFITS:

- Low maintenance: Ease of replacing and disposing of filtration media
- Multiple beds available for adsorbent media. For more information on the adsorbent media, please see the media brochure

MEDIA BED ROD:



This unit is equipped with a metal media bed rod. The rod is positioned inside the system at an angle against the direction of airflow and detects the expiration level of the media.

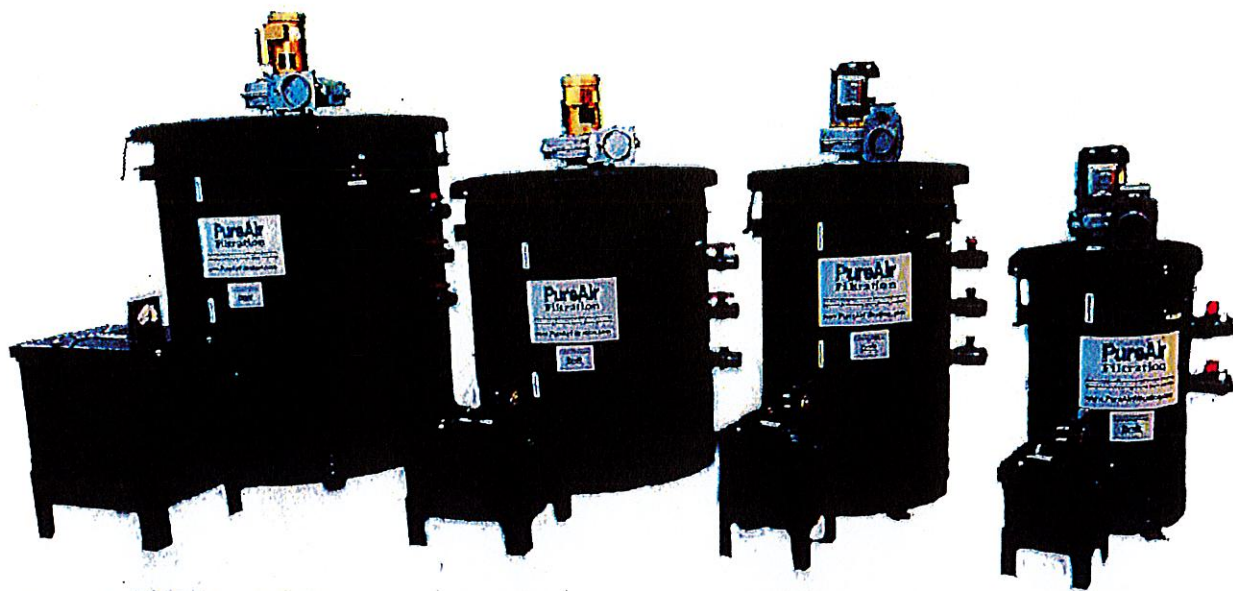
- Dark, corroded coloration on rod shows where media has expired. Once half the rod has been corroded, one should contact the factory to replace the media to ensure the proper functioning of the system.
- Interested in instant notification of media life? Ask about our electronic media bed rod that can be added to your system as an upgrade.



Case Study
City of Camas

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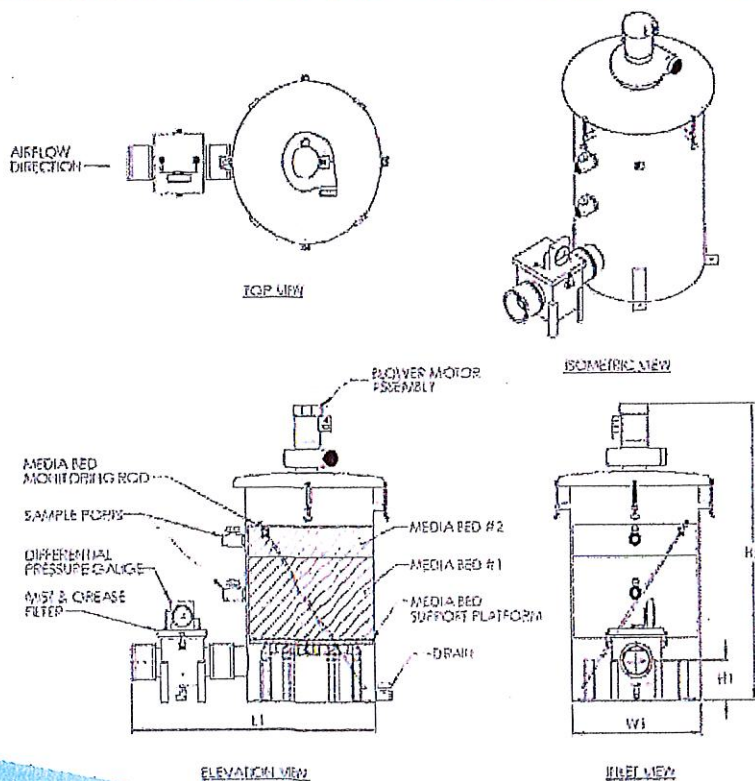


MODEL SELECTION TABLE

DS MODEL #	AIR FLOW RANGE CFM (CMH)	MOTOR RANGE kW (HP)	MEDIA VOLUME M ³ (FT ³)*	Shipping Weight KG (LBS)	Operating Weight KG (LBS)
100	85 - 300 (50 - 175)	.37 (.5)	.14 (5)	79 (175)	156 (345)
300	300 - 510 (175 - 300)	.56 (.75)	.25 (10)	154 (340)	304 (670)
500	510 - 850 (300 - 500)	.75 (1)	.42 (17)	113 (250)	386 (850)
1000	1190 - 2125 (700 - 1250)	1.1 (1.5)	1.1 (39)	272 (600)	862 (1900)

Customers who rely on PureAir's DS:

- Byrne Hollow Farms
- Dean Foods
- Town of Strasburg
- Coney Island WWTP
- LOVECO
- CTI Beanmaker
- Wahoo Creek Influent PS
- Belmont County Fairgrounds
- Imperial Landfill



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6050 Peachtree Pkwy Suite 240-187, Atlanta, GA, 30092 USA

Revision 0

CPS Blend Adsorbent Media

PureAIR
FILTRATION

Basic Information:

CPS Blend adsorbent media is a 50/50 percent blend of PureAir 8 potassium permanganate-based media and PureAir AC virgin bituminous activated carbon designed for the broadest range removal of corrosive, odorous, or toxic gases.

Note: CPS Blend media meets the requirements for UL certification.



General Description	Product Specifications	Removal Capability
<p>CPS Blend has the combined properties and benefits of PureAir 8 and Activated Carbon.</p> <p>PureAir 8: Spherical porous pellets formed from a combination of powdered activated alumina and other binders, suitably impregnated with potassium permanganate to provide optimum adsorption, absorption, and oxidation of a wide variety of gaseous contaminants.</p> <p>PureAir AC: Porous, cylindrical pellets of high grade bituminous activated carbon.</p>	<ul style="list-style-type: none"> • Particle Size: See base products • Density: 640 kg/m³ (40 lbs/ft³) • Surface Area: See base products • Typical Moisture Content %: See base products • Crush Test: See base products • Abrasion Loss %: See base products • Relative Pressure Drop: See Curve B • Permanganate Content: See base products • CTC Value: See base products • Iodine #: See base products 	<ul style="list-style-type: none"> • Hydrogen Sulfide: 8.0% by weight • Sulfur Dioxide: 6.9% by weight • Nitrogen Dioxide: 15.6% by weight • Formaldehyde: 1.4% by weight

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Sulphasorb XL™ Adsorbent Media

PureAIR
FILTRATION

Basic Information:

- Sulphasorb XL™ was developed to provide our customers with the highest extended life.
- Sulphasorb XL™ has a capacity for capturing hydrogen sulfide (H₂S), which is two to three times higher than other products in the market. PureAir does not impregnate this carbon.
- Sulphasorb XL™ performs exceptionally well not only in PureAir scrubbers, but also as replacement media in scrubbers manufactured by other companies.



General Description	Product Specifications	Removal Capability
Porous, 4 mm cylindrical pellets of high grade activated carbon. Sulphasorb XL™ is catalytic type engineered carbon that targets hydrogen sulfide.	<ul style="list-style-type: none">• Particle Size: 4mm diameter cylinder• Density: 480 kg/m³ (30 lbs/ft³)• Surface Area: 1100 m²/g• Typical Moisture Content %: 5%• Crush Test: 97 lbs• Abrasion Loss %: 3% maximum• Relative Pressure Drop: See Curve C• Ignition Temperature: >400° C• CTC Value: 70%• Iodine #: 1100 mg/g• Ash Content: 5% maximum• Butane Activity: 27% minimum	<ul style="list-style-type: none">• Approximately 66% by weight

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Toll Free: 866.543.7479

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