



# Consider Authorization of Non-Represented Employee Benefits

Board of Directors Meeting December 21, 2022

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## Requested Motion



- Direct staff to develop a compensation philosophy, conduct a compensation study, and develop a comprehensive compensation plan for Board approval and in accordance with Human Resource Management Performance Audit recommendations.
- Authorize the employee benefit package currently provided to non-represented employees until a new comprehensive compensation plan is approved by the Board.

## Background



#### HR Performance audit found:

- 2002 resolution of the Board provided management and confidential employees the same salary and fringe benefit increases as those negotiated for represented staff for only one year
- Best practice is to present comprehensive benefit package to the Board annually and not codify them in an Administrative Code.
- Insufficient updates of the District's Administrative Code has led to inconsistencies between the Administrative code and the benefits provided.

## Background (cont.)



#### HR Performance audit recommended:

- Staff develop a compensation philosophy for Board approval in accordance with Human Resource Performance Audit Recommendation 1.6.
- Staff to conduct a compensation study and develop a comprehensive compensation plan for Board approval that is based on the compensation philosophy and in accordance with the Human Resources Performance Audit Recommendation 1.7.

## Compensation Practices - Benefits



	Benefit	Represented	Confidential	Management	Executive*
CalPERS Retirement	Employees pay their own mandatory contribution	X	X	X	X
Money Purchase Plan	\$112.62 per month In lieu of Social Security	X	Χ	X	X
Flexible Benefits Allowance (Cafeteria Plan)	Includes Health, Dental, Vision and supplemental life insurance. Current maximum value is \$2,209 mo. for family	X	X	X	X
Retiree Health	Same benefit as active employee for employees who retire with 10 years + service (note, for those hire after 2010, they are subject to vesting schedule from 10-15 years of CalPERS service; for those hire prior to 2010, no vesting schedule; the fringe benefit allowance is frozen at the time of retirement)	X	X	X	X
Life Insurance	Up to \$500K District paid. Additional \$100K available for cost. Continues at retirement when dollar amount decreases with age.	X	X	X	X
Long Term Disability	\$6500 per month maximum	Χ	X	X	Χ
Vehicle Allowance	Assigned Vehicle or \$500 per month Directors and above			X	X
Sick Leave	12 days per year no accrual limit	X	X	X	X
Transit Subsidy	Transit subsidy up to \$280/month	Χ	X	X	X

<sup>\*</sup>Executive classifications are Deputy Air Pollution Control Officer and Deputy Executive Officer. Executive Officer and Counsel benefits are approved separately by the Board of Directors

## Compensation Practices – Benefits (cont.)



	Benefit	Represented	Confidential	Management	Executive*
Educational Reimbursement	Maximum \$2,000 per fiscal year for employee educational pursuits. Maximum \$1,500 for skill enhancement pursuits, up to \$1,000 per year per employee for student loan payback. Total annual amount paid to all employees can not exceed \$30,000	X	X	X	X
Dependent Care Assistance	Ability to set aside \$5,000 pre-tax income per year	X	Χ	X	Χ
Medical Care Account	Ability to set aside \$2,850 pre-tax income per year	X	X	X	X
Deferred Compensation	457 plan available. Employees may set aside up to the legal pre-tax maximum (up to \$22,500 per employee per year for 2023) \$30K includes age 50 catch up	X	X	X	Χ
Holidays	14 paid holidays	X	X	X	X
Floating Holidays	Hours per year of Leave given July 1	36	72	72	72
Annual Leave	From 12 to 30 days per year depending on length of service.  Maximum 550 hours expires June 30, 2023. Thereafter, maximum 460 hours accrual each January 1. Annual cash out of up to 40 hours allowed.	X	X	X	X
Management Leave	Hours per year of Leave given July 1 (annual cash out allowed)			80	120

<sup>\*</sup>Executive classifications are Deputy Air Pollution Control Officer and Deputy Executive Officer. Executive Officer and Counsel benefits are approved separately by the Board of Directors

## **Compensation Practices**



	Practice	Represented	Confidential	Management	Executive
Overtime Pay	Eligibility for 1.5 times hourly salary (or 2 times if working on holiday) for working hours more than 80 hours per pay period	X	Х		
Acting Assignment Pay	Eligibility for a pay increase during an assignment where an employee is temporarily acting in a higher paying position	Eligible for assignments longer than 40 hours. Increased pay starts on hour	Eligible for assignments longer than 15 days. Increased pay starts on day 16	Eligible for assignments longer than 15 days. Increased pay starts on day 16	Eligible for assignments longer than 15 days. Increased pay starts on day
Covid Hazard Pay	2.5% pay to employees who are deemed essential and are directed to work in the Air District offices or the field during Covid State of Emergency. Governor announced the Covid State of Emergency will end on 2/28/23.	X	X	X	X
Regular Hazard Pay	2.5% pay to employees who perform hazardous duties, including: 1) climb 30 feet or more; 2) wear Self-Contained Breathing Apparatus (SCBA) or safety harness; 3) perform confined space entries	X	X	X	X

<sup>\*</sup>Executive classifications are Deputy Air Pollution Control Officer and Deputy Executive Officer. Executive Officer and Counsel benefits are approved separately by the Board of Directors

### Recommendation for Motion



- Move that the Board Direct staff to develop a compensation philosophy, compensation study, and comprehensive compensation plan for Board Approval, and in accordance with the Human Resource Performance Audit Recommendation 1.6 and 1.7.
- Authorize the current compensation practices for nonrepresented staff to continue until the comprehensive compensation plan is authorized by the Board.



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DISTRICT

## Consider Authorizing the Allocation, Classification, and Recruitment of the 20 Unclassified Vacant Positions included in the Fiscal Year Ending (FYE) 2023 Budget

Board of Directors Meeting December 21, 2022

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#### **Requested Action**



 Recommend approval for the allocation, classification and recruitment of 20 unclassified positions authorized in the Fiscal Year Ending 2023 Budget



#### The Air District's Management Audit found:

- The 20 positions authorized in the FYE 2023 budget are reasonable to fill to address understaffing.
- There are multiple options for allocation of the positions.
- Appendix H to the FYE 2023 budget was developed to increase visibility of the classification and allocation of each position.

## Staffing Allocation Recommendation



#### Table 1 from Staff Report

Divisions/Offices	Auditor's Initial Allocation of Unfilled Positions	District and Auditor Revised Allocation of Unfilled Positions
Executive	2 (Public Affairs & Ombuds)	0 *Use consultant for Ombuds
Operations		
Compliance & Enforcement	4	4
Engineering	4	4
Finance	2	2
Policy & Equity		
Community Engagement	2	2
Rules	1	0
Meteorology & Measurement	0	3
Strategic Incentives and Technology Implementation	0	Future Authorization Request
Administration	2 (CTO, Chief of Staff- Hold)	2 (CTO, Chief of Staff- Hold)
Administrative Resources	1	1
Information Services	2	2

### Staffing Allocation Recommendation (cont.)



#### Table 2 from Staff Report

Divisions/Offices	Recommended Class/Paygrade	Total Count
Operations		
Compliance & Enforcement	(2) Air Quality Specialist I/II (2) Assistant AQS I/II	4
Engineering	<ul><li>(1) Supervising AQE</li><li>(3) Air Quality Engineer I/II</li></ul>	4
Finance	(1) Manager (1) Senior Accountant	2
Policy & Equity		
Community Engagement	(2) Staff Specialist I/II	2
Meteorology & Measurement	<ul><li>(2) Senior AQ Specialist</li><li>(1) Air Quality Engineer I/II</li></ul>	3
Strategic Incentives and Technology Implementation	Staff Specialist I/II	Future Authorization Request
Administration	(2) Deputy Air Pollution Control Officers	2 (CTO, Chief of Staff)
Administrative Resources	(1) Senior Advanced Projects Advisor	1
Information Services ors Meeting	<ul><li>(1) Manager</li><li>(1) Systems Analyst</li></ul>	2
2022		

### FYE 2023 Budget Appendix H



12.22	APPENDIX H	932 935		27.52			Pi	fanager ublic Information Officer I/II	148 130/134	5	5	0	Engineering	Administrative Assistant I/II	114/118	4	4	
TABLE 1: The position permanent full-time posit	as listed in Table 1, below, constitu- tions and division assignments at E) 2023. Effective immediately, as	ute the entire the designate	ty of authord classifica	rized ations for			54 0	enior Public Information Officer	138	1	1 (	0		Air Quality Engineer I/II Air Quality Permit Technician	112/136	18	48 <u>21</u>	
Fiscal Year Ending (FYE Table 1 shall require app	<li>2023. Effective immediately, as royal by the District's Board of D</li>	ny changes to brectors. If a	the inform oproved, th	nation listed he FYE 23	lin	Continue	nications Total			10	10 (	0		I/II Air Quality Specialist I/II	130/134	2 2	2	
Budget contains twenty (	roval by the District's Board of D (20) additional positions which are n. These positions are listed in To	e not yet allo able 1 as "Us	cated to a j	ob The Board	Lot	Commun	nity Engagement	dministrative Assistant I/II	114/118			0		Air Quality Technician I/II Assistant Manager	112/126	5	5	
Directors will consider fi	inal allocation of these positions a	t a future Bo	ard meeting	L			A	ssistant Manager	147 122/126	1	1 1	0		Director/Officer	156 148	1	1	
	Table 1 FVE 2023 Authorized	20.20					D	asistant Staff Specialist I/II Frector/Officer	156	1	1 1	0		Manager Principal Air Quality Engineer	148	4	4	
• <del>1</del> •	FYE 2023 Authorized						M Pr	fanager ublic Information Officer I/II	148	2	1 (	0		Senior Advanced Projects Advisor	148	1	1	
Dhytsian	Position Classification	Salary Range ID	FVE 22	PHE 23 I	Merence		54	enior Air Quality Engineer enior Staff Specialist	140	1 5	1 1	0		Senior Air Quality Engineer Senior Air Quality Technician	140 130	10	10	
Administrative Resources	Director/Officer	156	1	1	0		nity Engagement	taff Specialist I/II	130/134	2 :	24 0 632 0	12		Supervising Air Quality Engineer	144	11	41.12	
	Facilities Maintenance Worker Manager	108	1	1	0	Total	mny Engagement			15	-14	4		Supervising Air Quality Specialist	142	- 1	4	
	Senior Advanced Projects	148			1	Compiliar	ince &							Supervising Systems Analyst	139	î	î	
	Senior Executive Assistant Senior Staff Specialist	134 136	1	1	0	Enforces	A	dministrative Assistant I/II	314/118	2	2 3	0	Engineering Total	Toxicologist	144	69	69_73	
	Staff Specialist I/II	130/134		5"	-1		A	ir Quality Engineer t/II ir Quality Specialist I/II	132/136	48 37	1 4	0	Executive					
	Supervising Staff Specialist **Principal Staff Specialist	142	0	0	0		A	ir Quality Technician I/II osistant Air Quality Specialist	122/126	6	6 (	0		Administrative Assistant I/II Air Quality Technician I/II	134/118	1	1	
Administrative Resources Total	•		12	12,13	0.1		12		322/126 156	9	2	2		Assistant Manager Clerk of the Boards	147	1	i	
Assessment, Inventory &							M	fanager	148	5	5	0		Deputy Air Pollution Control Officer	160		85	
Modeling	Advanced Projects Advisor	144	2	2	0		Pr Ri	rincipal Air Quality Specialist adio/Telephone Operator	142 113	4	4 1	0		Deputy Executive Officer	169	3	3	
	Air Quality Engineer I/II	132/136	2	2	0		54	adio/Telephone Operator upervisor	119	1	1 1	0		Director/Officer Executive Assistant I/II	156 138/132	3 2	3 2	
	Air Quality Meteorologist I/II Atmospheric Modeler	140	1	1	0		Se A	enior Advanced Projects dvisor	148	0	1-	1		Executive Officer/Air Pollution Control Officer	Centract	1	1	
	Director/Officer Manager	156 148	2	2	0		54	enior Air Quality Engineer enior Air Quality Specialist	140	3	3 6	0		Manager Principal Environmental	296	3	3	
	Principal Air Quality Engineer Research Analyst	186	3	3	0		54	enior Air Quality Technician upervising Air Quality	150		2	0		Planner Senior Advanced Projects	142	1	1	
	Senior Advanced Projects Advisor	148	2	2	0		54	pecialist	142	9 89 B	9	0		Advisor Senior Executive Assistant	148 134	2	2	
	Senior Air Quality Engineer Senior Atmospheric Modeler	140	1	1	0	Enforcem	ment Total				9.91 0	tit.	Executive Total	and the sum assisted	1.54	25	25 <u>27</u>	
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Assessment, Inventory & Modeling Total	- cantilities.		18	18	0	Inclusion		fanager	148	1	1 1	0		Accountant I/II Accounting Assistant I/II	**130/134	5	4* 3	
Communications						Diversity	y, Equity &	teff Specialist I/II	150/134	2	2 4	0		Assistant Manager Director/Officer	147 156	1	0+ 1	
	Assistant Staff Specialist I/II Director/Officer	122/126 156	2	2	0	Inclusion	n Total							**Fiscal Services Supervisor Manager	142 148	1	1	
	••Senior Accountant	**138	0	0_2	e <u>2</u>	ı	A	ir Quality Engineer I/II	132/136	2	13 0	4		Principal Environmental				•
	Senior Staff Specialist Staff Specialist I/II Supervising Staff Specialist	138 130/134 142	0 1 2 1 1	0.2 1 3*	020011000000000000000000000000000000000		A Te A	ir Quality Laboratory echnician I/II ir Quality Meteorologist I/II	122/126 131/135	1 2	1 1	0000		Planner Senior Advanced Projects Advisor	.42 .48 .40	2 1 1	2 1 1	-
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Finance Office Total Human Resources Office	Senior Staff Specialist Staff Specialist I/II Supervising Staff Specialist Systems Analyst	138 130/134 142 135	0 1 2 1 1	1 3* 1 1 17_19	1 0 0	I	A Tr A A A	ir Quality Laboratory echnician (/II ir Quality Meteorologist (/II ir Quality Specialist (/II ir Quality Technical Assistant ssixtant Air Quality Specialist II	122/126 131/135 190/134 118 122/126	1 2 16 1	1 2 10*	0 0 0 6 6 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	Planning & Climate	Planner Senior Advanced Projects Advisor Senior Air Quality Engineer	.48 .40	1 1 4 1	1 1 1 4	
	Senior Staff Specialist Staff Specialist //II Supervising Staff Specialist Systems Analyst Assistant Manager Director/Officer	138 130/134 142 135	0 1 2 1 1 37	1 3* 1	1 0 0	I	A Ti A A A V A A	ir Quality Laboratory echnician (/II ir Quality Meteorologist (/II ir Quality Specialist (/II ir Quality Technical Assistant sistant Air Quality Specialist II sisistant Manager sisistant Manager	122/126 131/135 130/134 118 122/126 147 122/126	1 2 16 1	1 2 10*	000000000000000000000000000000000000000	Planning & Climate Protection Total	Planner Senior Advanced Projects Advisor Senior Air Quality Engineer Senior Air Quality Specialist Senior Environmental Planner	.48 .40 .38 .38	2 1 1 1 4 1 20	2 1 1 1 4 1	
	Senior Staff Specialits Staff Specialist /II Supervising Staff Specialist Systems Analyst  Assistant Manager Director/Officer Human Resources Analyst I/II Manager	138 130/134 142 135	0 1 2 1 1 17	1 3* 1 1 17_19	1 0 0 02	l	A A A A V A A D	ir Quality Laboratory echnician (I) ir Quality Meteorologist (I) ir Quality Specialist (I) ir Quality Technical Assistant sostant Air Quality Specialist is sistant Manager sistant Manager francer francer francer	122/126 131/135 130/134 118 122/126 147	1 2 16 1	1 2 10*	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Planning & Climate Protection Total Rules	Planner Senior Advanced Projects Advisor Senior Air Quality Engineer Senior Air Quality Secialist Senior Environmental Planner Senior Policy Advisor	48 40 38 38 48	1 1 4 1	1 1 1 4	
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Human Resources Office	Senior Staff Specialist Staff Specialist /II Supervising Staff Specialist Systems Analyst  Assistant Manager Director/Officer Human Resources Analyst I/II Manager Principal Human Resources	138 130/134 142 135 147 156 130/134 148	1 2 1 1 17	1 3* 1 1 1719 0* 1 1 2* 1	1 0 0 02	I	A TO A A A A A A A A A A A A A A A A A A	ir Quality Laboratory echnicism (I) ir Quality Laboratory echnicism (II) ir Quality Meteorologist (I) ir Quality Specialist (II) ir Quality Technical Assistant acceptant All Quality Technical Assistant All Quality Specialist (II) is second Manager successful Assistant Specialist (III in the Conference of the Conferen	122/126 131/135 130/134 118 122/126 147 122/126 156 148	1 2 16 1	1 2 10*	110000000000000000000000000000000000000	Protection Total	Planner Senior Advanced Projects Advisor Senior Air Quality Engineer Senior Air Quality Engineer Senior Air Quality Secolatit Senior Engineerstal Planner Senior Proficy Advisor  Assistant Manager Director/Officer Manager Senior Air Quality Engineer	.48 .40 .38 .38 .38 .48 .48 .47 .56 .48 .40	1 1 4 1	1 1 1 4	
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Human Resources Office Human Resources Office Total	Senior Staff Specialist Staff Specialist 7/1/1 Supervising Staff Specialist Systems Analyst  Assistant Manager Director/Officer Human Resources Analyst 7/1 Manager Principal Human Resources Analyst Senior Human Resources	138 130/134 142 135 147 156 130/134 148 142 138	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3* 1 1 1 17/19 0* 1 1 2* 1 5	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I	A A A A A A A A A A A A A A A A A A A	in Causity, Laboratory  etholican, IV.  etholi	122/126 131/135 130/134 118 122/126 147 122/126 148 149 148 145 142 144 143 142 144 143 142 144	1 2 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Protection Total Rules Rules Total	Plannie Steller Adylanced Projects Senior AR Quality Engineer Senior AR Quality Specialist Senior Engineer Senior AR Quality Specialist Senior Engineer Senior AR Quality Specialist Senior Engineer Senior Manager Director / Officer Manager Senior AR Quality Engineer	.48 .40 .38 .38 .38 .48 .48 .47 .56 .48 .40	1 1 4 1 20	1 1 1 4	
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Human Resources Office Human Resources Office Total	Senior Sarti Specialist Sarti Rapecialist (Sarti Rapecialist) Sarti Rapecialist (Pigocalist Systems Analyst Assistant Manager Decessor/Officer Analyst Assistant Manager Decessor/Officer Analyst Air Casality Secialist (III Assistant Air Quality Specialist (III Assistant Manager Decessor/Officer Analystant Manage	138 130/134 142 135 147 156 130/134 148 142 138 130/134 122/126 147 156 148 127/131	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3* 1 1 1 17/19 0* 1 1 2* 1 5 10	1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	I	A A A A A A A A A A A A A A A A A A A	in Classific Laboratory in Classific Laboratory in Charley Meteorologist (VII in Charley Specialist (VIII in	122/126 131/135 130/135 118 122/126 147 122/126 148 149 144 145 144 145 144 145 146 147 148 149 149 149 149 140 141 141 142 143 144 145 146 147 148 148 149 149 149 149 149 149 149 149 149 149	1 2 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Protection Total Rules Rules Strategic Incentives	Planner Senior Advanced Projects Senior An Quality Engineer Senior An Quality Engineer Senior An Quality Socialist Senior Concernmentar Planner Senior Policy Advance Assistant Manager Director /Officer Manager Senior An Quality Engineer Senior An Advance (VIII Assistant Staff Specialist VIII Massistant Staff Specialist VIII Manager Manager	A8 A0 38 38 38 A8 A7 56 A8 A0 38 38 38 48 40 38 56 56 68 69 60 60 60 60 60 60 60 60 60 60	1 1 1 1 1 20 20 1 1 1 1 5 3 11 1 1 3 1 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 4 4 1 20	
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Human Resources Office Human Resources Office Fotal Information Services Information Services Total Legal Services	Senior Sart Specialist Sart Specialist (Sart Specialist (Sart Specialist (Sart Specialist (Specialist	138 130/134 142 135 147 156 130/134 148 142 138 130/134 122/126 147 159 159 127/131 130/134 130/134 130/134 130/134 130/134 130/134 130/134 130/134	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	My Air O	A A A A A A A A A A A A A A A A A A A	Collarly Automatory Coulty Mecconoger (1) or County Networcogner (1) or County Networcogner (1) or County Networcogner (1) or County Technical Associate County Technical	122/126 131/135 136/135 136/135 136/135 147 147 122/136 148 149 144 145 144 145 146 148 149 140 141 141 142 144 144 144 144 145 146 147 148 149 149 149 149 149 149 149 149 149 149	1 2 16 1 1 1 8 2 2 1 5 5 1 1 4 4 2 2 2 2 1 1 5 5 2	1 2 2 100 - 00 - 00 - 00 - 00 - 00 - 00	000000000000000000000000000000000000000	Rules  Rules  Rules  Strategic Incentives  Strategic Incentives  Strategic Incentives  Strategic Incentives  Technology Inspermentation	Planning Andread Projects Advisor Section & County Engineer Section & County Engineer Section & County Section & Section Policy Advisor Disressory/Officer Section & County Sect	A8 A40 38 38 A8	1 1 1 1 1 20 20 1 1 1 1 5 3 11 1 1 3 1 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 4 1 20 1 1 1 5 3 11 1 3 1 4 5 1 3 4 3 1 4 4 3 1 4 4 3 1 4 4 3 1 4 4 3 1 4 4 4 3 1 4 4 4 4	
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#### Recommendation for Motion



Move that the Board of Directors adopt a resolution for the allocation, classification, and recruitment of the 20 unclassified vacant positions included in the FYE 2023 budget, and for updating Appendix H of the FYE 2023 budget in accordance with the position designations provided in attached Table 2.





BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

# Revision of the PM<sub>2.5</sub> National Ambient Air Quality Standard: The Role of Air Monitoring Data

Board of Directors Meeting December 21, 2022

Kate Hoag, Ph.D.
Assistant Manager, Ambient Air Quality Analysis
Meteorology and Measurement Division
<a href="mailto:khoag@baaqmd.gov">khoag@baaqmd.gov</a>

#### **Presentation Outcome**



To provide background information to help understand upcoming proposals from U.S. Environmental Protection Agency (EPA), Air District staff will provide an overview of how air monitoring data is compared to the NAAQS.

#### **Presentation Outline**



- National Ambient Air Quality Standards (NAAQS)
- Role of air monitoring data
- What is a design value?
- Example: PM<sub>2.5</sub> trends
- Next steps for PM NAAQS, designations, and planning

## **Presentation for Information Only**



No action required.

# National Ambient Air Quality Standards (NAAQS)



- U.S. Environmental Protection Agency (EPA) sets health-based limits for concentrations of six pollutants in ambient (outdoor) air according to the Federal Clean Air Act
  - Carbon monoxide, ozone, lead, nitrogen dioxide, particulate matter (PM), and sulfur dioxide
  - Primary NAAQS: Health-based, to an adequate margin of safety
  - Secondary NAAQS: Welfare based, e.g. visibility, damage to crops, vegetation, buildings, and animals
- EPA is required to review NAAQS every five years

## PM NAAQS (Primary)



Indicator	Averaging Time	Level	Form	Bay Area Status
PM <sub>2.5</sub>	Annual	12.0 µg/m³	Annual average, averaged over 3 years	Unclassifiable/ Attainment
PM <sub>2.5</sub>	24-Hours	35 μg/m <sup>3</sup>	98th percentile, averaged over 3 years	Nonattainment
PM <sub>10</sub>	24-Hours	150 μg/m <sup>3</sup>	Not to be exceeded more than once per year on average over a 3-year period	Unclassifiable/ Attainment

# What Happens After EPA Revises a NAAQS?



NAAQS Revision Initial Designations

SIP\*
Development

SIP Implementation

This process includes a lot of work and decisions we haven't had to make in the Bay Area in a long time

We'll be planning conversations over the next year to outline, update, and bring decisions to the Board

We'll start today with a review of the PM NAAQS and designations, which both are linked to air monitoring data

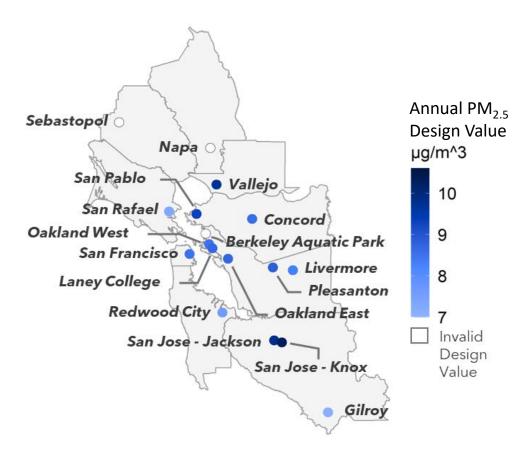
\*State Implementation Plan (SIP)



#### **Goals for Air Monitoring**



- Timely public information
- Demonstrate compliance with NAAQS
- Other supporting technical uses, like developing or assessing emission control strategies (long-term trends)
- Provide information about air quality in overburdened communities, and about impacts from nearby sources (near road)
- Air pollution research studies (atmospheric processes or health effects/exposure)

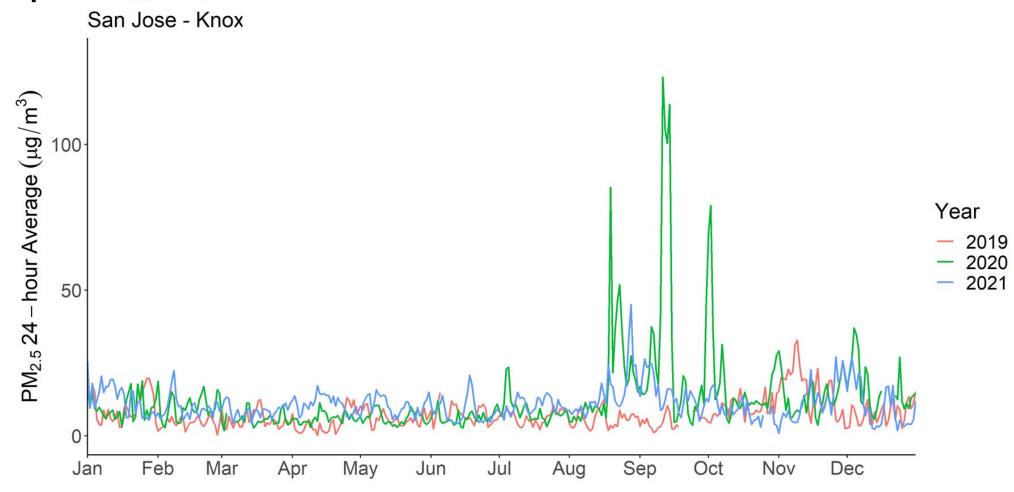


Bay Area PM<sub>2.5</sub> Monitoring Stations

## How Should We Compare a Highly Variable Dataset (Air Monitoring Data) To One Number (NAAQS)?



**Example:** PM<sub>2.5</sub> Daily Trends



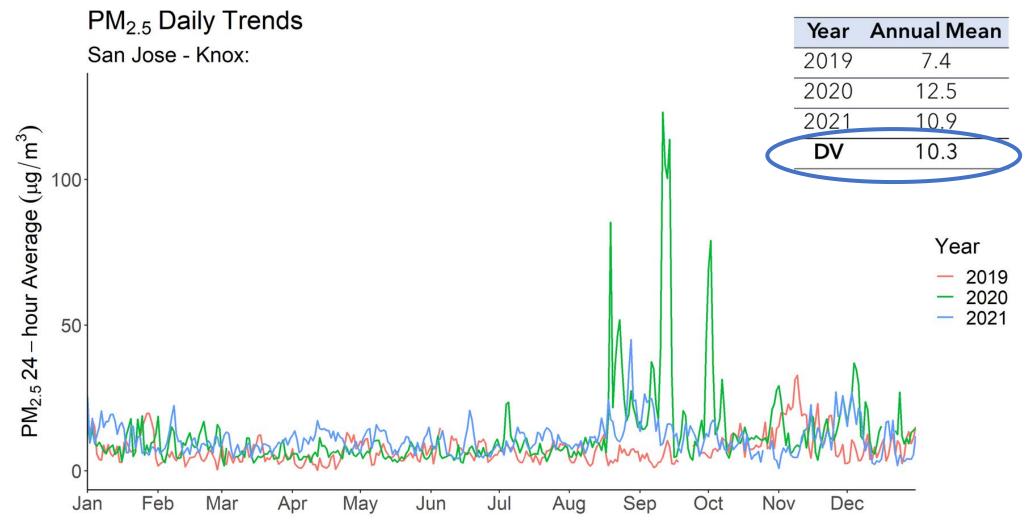
# Design Value (DV): A Statistic to Summarize Air Monitoring Data to Compare to NAAQS



- For each monitoring site for each year, a DV is calculated using data from the past three years (e.g. 2021 DV uses data from 2019, 2020, and 2021).
- The monitoring site with the highest DV determines the DV for the San Francisco Bay Area planning area.
- For our planning area to be attaining the standard, our area DV needs to be below the NAAQS.

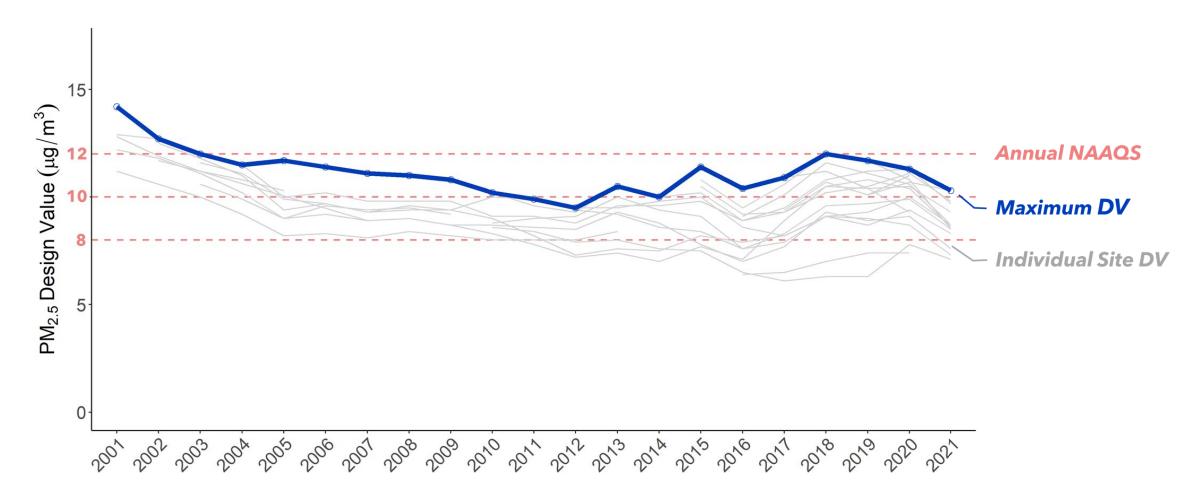
#### **Example: DV for a Monitoring Site**





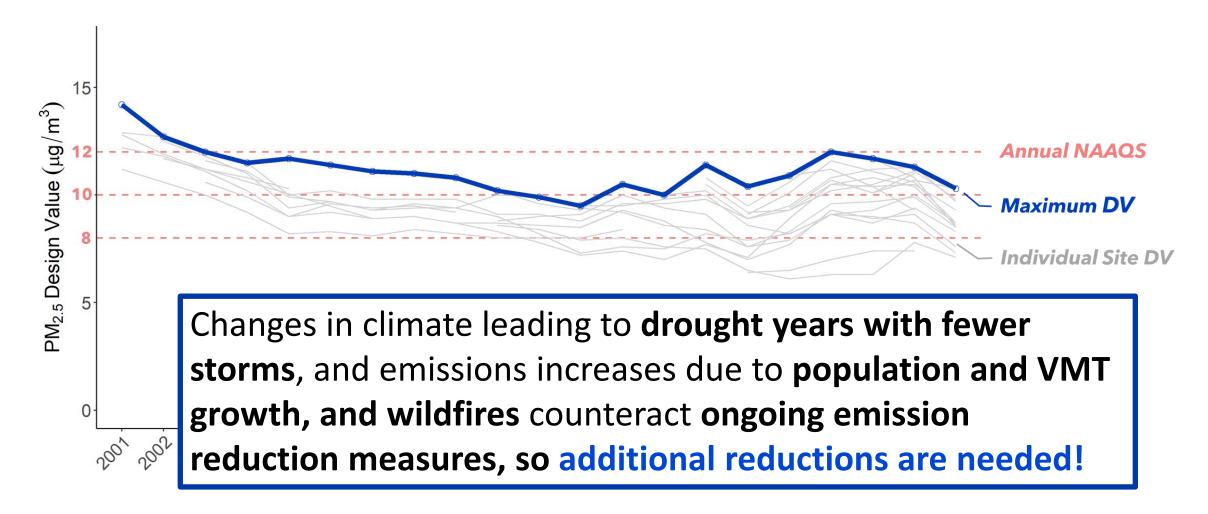
#### **Annual PM<sub>2.5</sub> Design Value Trends**





#### **Annual PM<sub>2.5</sub> Design Value Trends (cont.)**





#### PM<sub>2.5</sub> Trends: Wildfire Impacts



- Air District can request that EPA remove data from the DV calculations if data are affected by emissions that are not reasonably controllable or preventable.
- Removing smoke days may only change a site's annual DV by 1-2 μg/m³ at most, which may matter more if the proposed NAAQS is 10 μg/m³ and may matter less if the proposed NAAQS is 9 or 8 μg/m³

Example: San Jose – Knox

	All data	Without wildfire smoke days (preliminary)
2019	7.4	7.4
2020	12.5	9.9
2021	10.9	10.8
DV	10.3	9.4

#### **NAAQS** Designations & Implementation



NAAQS Revision Initial Designations

SIP Development SIP Implementation

Where are we now and what does it mean for work over the coming months and years?

#### Finalizing the NAAQS



**Now – early 2023** 

NAAQS Revision Initial Designations

SIP Development SIP Implementation

- EPA will propose a revised particulate matter (PM) NAAQS soon (proposed rulemaking)
- Agencies and the public reviews the proposal and submit comments about the proposed NAAQS and associated program changes
- Expect EPA to finalize the NAAQS in early 2023

#### **Initial Area Designations**



**Now – early 2025** 

NAAQS Revision Initial Designations

SIP Development SIP Implementation

- Review data and prepare exceptional events demonstrations if needed
- Work with California Air Resources Board (CARB) to prepare the state recommendation information for the Bay Area
- Work with CARB and EPA on air monitoring data for EPA's technical report

## Developing a State Implementation Plan (SIP)



Now - mid 2026

NAAQS Revision

Designations

SIP Development SIP Implementation

- Evaluate inventory, modeling, and monitoring data to assess the combination of emissions we will need to reduce
- Develop a comprehensive strategy to meet the standard and address racial inequities and environmental injustice

Regulatory

**Incentives** 

**Partnerships** 

ICTICE

#### **Next Steps**



NAAQS Revision Initial Designations

SIP Development SIP Implementation

- Review the NAAQS Rulemaking once published
- Continue conversation with the Board about NAAQS designation and implementation
- Share updated technical information about the drivers of PM<sub>2.5</sub> levels and our path to attainment

### Feedback Requested/Questions



Questions and Comments