

Jamie Eloise M. Hgbayani, M.D. President and Chief Executive Officer

27 July 2015

HONORABLE CESAR L. VILLANUEVA

Chairman

Governance Commission for GOCCs (GCG)

3/F Citibank Centre, Citibank Plaza,

Paseo de Roxas Cor. Villar St., Makati City

Attention:

Ralph Owen V. de Castro

Corporate Governance Officer IV

Subject:

Submission of the CY 2015 2nd Quarter Performance Monitoring Report

(PES Form 3) of the John Hay Management Corporation (JHMC)

Dear Chairman Villanueva:

May we respectfully submit the following for the above subject relative to the JHMC- GCG Performance Agreement for CY 2015:

- a. CY 2015 2nd Quarter Performance Monitoring Report (PES Form 3); and
- b. Department of Environment and Natural Resources- Environment Management Bureau (DENR-EMB) Report on the Ambient Air Quality Sampling and Monitoring conducted for the 1st Quarter 2015 within the Baguio City, La Trinidad, Itogon, Sablan, Tuba and Tublay (BLISTT) Airshed.

Thank you and with assurances of my highest esteem, I remain

Very truly yours,

JAMIE ELOISE M. AGBAYANI, M.D.

John Hay Management Corporation
a member of the BCDA Group

John Hay Special Economic Zone P.O. Box 1088, Baguio City 2600 Philippines

a member of The True Court as the Problems Group

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JOHN HAY MANAGEMENT CORPORATION PERFORMANCE EVALUATION SYSTEM

Performance Monitoring Report

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Strategic Measure	Formula	Weight	Rating	Base	eline	1st Quarter			2nd Quarter	3rd Quar	ter	4th Quart	er
			System	2013	2014	Target	Actual	Target	Actual	Target	Actual	Target	Actu
SO 1: Develop Camp John Ha	ıy as a Premier Toui	rist and In	vestment Destinati	on									
SM 1: Number of jobs generated in the JHSEZ	Absolute Number	12.5%	Actual Increase / Target Increase x Weight	3,473	4,050	1,025		1,025	4,554 (as of 30 June 2015)	1,025		1,025	
SM 2: Gross sales of business enterprises within the JHSEZ	Absolute Number	12.5%	Actual / Target x Weight	No Baseline Data Available	150M	50M		50M	₱450.4 M	50M		50M	
SM 3: Issuance of ISO 14001 Environmental Management System	Absolute Number	10.0%	All or Nothing	No Baseline Data Available	No Baseline Data Available	thorough study on ISO 14001 Compliance Processes, procedures and standards (in-	of the "Sustainable Forest Management Plan"	thorough study on ISO 14001 Compliance Processes, procedures and	d The Terms of Reference (TOR) y for a Forest Management Program funding for the JHMC has been approved by the JHMC-BOD. To date, letters were sent tp KOICA, JICA, ADB, ASAID, AUSAID and d Israel Embassy, for possible funding. Further, the JHMC-Benguet State University (BSU)- Commission on Higher Education (CHED) on long term partnership for the "Sustainable Forest Management Plan for Camp John Hay has been approved by the JHMC-BOD.	14001		Implementation of Consultancy towards ISO 14001 Certification	





JOHN HAY MANAGEMENT CORPORATION PERFORMANCE EVALUATION SYSTEM

Performance Monitoring Report

			国际中国共享的	经验证证		的原则是	经共享条件,并是规定的经验10	2015			20	15	
Strategic Measure	Formula	Weight	Rating	Base	eline		1st Quarter		2nd Quarter	3rd Quarte	er	4th Quart	er 🛒
			System	2013	2014	Target	Actual	Target	Actual	Target	Actual	Target	Acti
SM 4: Compliance of JHMC to National Ambient Air Quality Standards on Particulate Matter 10 (PM10) within the JHSEZ.	Non-exceedance in the JHMC set for Particulate Matter 10 (PM10): less than 80 µg/ m ³	10.0%	Actual / Target x Weight	11 µg/ m³ (РМ 10)	22.95 μg/ Ncm	No scheduled	a. Date: 03-04 Feb. 2015	less than 80 µg/ Ncm	conducted on the following dates and place with which the reading were not yet released by the City Environment Parks and Management Office (CEPMO): a. 01-07 June 2015- Mile Hi Center; and	less than 80 μg/ Ncm		No scheduled DENR-EMB reading for the quarter	
SO 3: Enforce Efficient and Ef	fective Regulation	in the Spec	cial Economic Zon	e de la companya de l		24年25月				State of the state			
SM 5: Stakeholders' Satisfaction Survey	95% or better rating	10.0%	Actual / Target x Weight	No Baseline Data Available	87%	95%	Overall Rating is "Excellent" based on adjectival rating. The percentage guide will be finalized with the Development of the JHMC- Quality Management System (QMS).	95%	Overall Rating is "Excellent" based on adjectival rating. The percentage guide will be finalized with the on-going Development of the JHMC-Quality Management System (QMS).	95%		95%	
SO 4: Increase JHMC Revenue	es to Attain Financ	ial Viabilit	ty										200
SM 6: Remittance of Collection from Lease rentals of BCDA Assets	Absolute Number	10.0%	Actual / Target x Weight	25.8 M	16.4 M	6.83 M	9.29 M	6.83 M	7.56 M	6.83 M		6.83 M	0.0
SO 5: Strengthen Compliance	Monitoring of All E	Business E	nterprises to the R	tules and Regula	ations of the JI	ISEZ	10000000000000000000000000000000000000						3.55
SM 7: Frequency of Spot inspections per Business Enterprise	Average of 20 inspections per week	7.5%	Actual / Target x Weight	No Baseline Data Available	No Baseline Data Available	at least 1,105 per quarter	280 (average of 23.33 inspections per week)	at least 1,105 per quarter	242 (average of 20.17 inspections per week)	at least 1,105 per quarter		at least 1,105 per quarter	
SM 8: Frequency of Certificate of Environmental Compliance (CEC) Monitoring	Average of 85 inspections every two (2) months	7.5%	Actual / Target x Weight	No Baseline Data Available	No Baseline Data Available	130	32 inspections/ environment audits	130	31 inspections/ environment audits	124		126	
	National Ambient Air Quality Standards on Particulate Matter 10 (PM10) within the JHSEZ. SO 3: Enforce Efficient and Efficient	SM 4: Compliance of JHMC to National Ambient Air Quality Standards on Particulate Matter 10 (PM10) within the JHSEZ. SO 3: Enforce Efficient and Effective Regulation SM 5: Stakeholders' Satisfaction Survey SO 4: Increase JHMC Revenues to Attain Finance SM 6: Remittance of Collection from Lease rentals of BCDA Assets SO 5: Strengthen Compliance Monitoring of All I SM 7: Frequency of Spot inspections per Business Enterprise SM 8: Frequency of Certificate of Environmental Compliance Average of 85 inspections every	SM 4: Compliance of JHMC to National Ambient Air Quality Standards on Particulate Matter 10 (PM10): less than 80 µg/ m³ SO 3: Enforce Efficient and Effective Regulation in the Spe SM 5: Stakeholders' Satisfaction Survey SO 4: Increase JHMC Revenues to Attain Financial Viability SM 6: Remittance of Collection from Lease rentals of BCDA Assets SO 5: Strengthen Compliance Monitoring of All Business E SM 7: Frequency of Spot inspections per Business Enterprise SM 8: Frequency of Certificate of Environmental Compliance Average of 85 inspections every 7.5%	SM 4: Compliance of JHMC to National Ambient Air Quality Standards on Particulate Matter 10 (PM10) within the JHSEZ. SO 3: Enforce Efficient and Effective Regulation in the Special Economic Zon SM 5: Stakeholders' Satisfaction 95% or better rating SO 4: Increase JHMC Revenues to Attain Financial Viability SM 6: Remittance of Collection from Lease rentals of BCDA Assets SO 5: Strengthen Compliance Monitoring of All Business Enterprises to the FSM 7: Frequency of Spot inspections per Business Enterprise SM 8: Frequency of Certificate of Environmental Compliance More Revenues of Spot inspections per Week SM 8: Frequency of Certificate of Environmental Compliance More Revenues of Spot inspections per Week Actual / Target x Weight Actual / Target x Weight Actual / Target x Weight	SM 4: Compliance of JHMC to National Ambient Air Quality Standards on Particulate Matter 10 (PM10) within the JHSEZ. SO 3: Enforce Efficient and Effective Regulation in the Special Economic Zone SM 5: Stakeholders' Satisfaction 95% or better rating SO 4: Increase JHMC Revenues to Attain Financial Viability SM 6: Remittance of Collection from Lease rentals of BCDA Assets SO 5: Strengthen Compliance Monitoring of All Business Enterprises to the Rules and Regulation per week SM 7: Frequency of Spot inspections per Business Enterprise SM 8: Frequency of Certificate of Environmental Compliance Average of 20 inspections per week Average of 85 inspections every 7.5% Actual / Target x Weight No Baseline Data Available No Baseline Data Available No Baseline Data Available	SM 4: Compliance of JHMC to National Ambient Air Quality Standards on Particulate Matter 10 (PM10): less than 80 µg/m³ SO 3: Enforce Efficient and Effective Regulation in the Special Economic Zone SM 5: Stakeholders' Satisfaction 95% or better rating 10.0% Actual / Target x Weight 10.0% Actual / Target x Weight No Baseline Data Available 87% SO 4: Increase JHMC Revenues to Attain Financial Viability SM 6: Remittance of Collection from Lease rentals of BCDA Assets SO 5: Strengthen Compliance Monitoring of All Business Enterprises to the Rules and Regulations of the JI Oata Available No Baseline Data Available	SM 4: Compliance of JHMC to National Ambient Air Quality Standards on Particulate Matter 10 (PM10) within the JHSEZ. SO 3: Enforce Efficient and Effective Regulation in the Special Economic Zone SM 5: Stakeholders' Satisfaction 95% or better rating 10.0% Actual / Target x Weight No Baseline Data Available SO 4: Increase JHMC Revenues to Attain Financial Viability SM 6: Remittance of Collection from Lease rentals of BCDA Assets Assets No Baseline Data Available Actual / Target x Weight No Baseline Data Available No Baseline Data Available Actual / Target x Weight No Baseline Data Available No Baseline Data Available	Strategic Measure Formula Rating System 2013 2014 Target Actual 1st Quarter Ambient Air Quality Radings were conducted on the following dates and place with corresponding results: 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. 10 (PM10) within the JHSEZ. SO 3: Enforce Efficient and Effective Regulation in the Special Economic Zone SM 5: Stakeholders' Satisfaction Survey SM 6: Remittance of Collection from Lease rentals of BCDA Assets Absolute Number Absolute Number 10 .0% Actual / Target x Weight No Baseline Particulate Matter (PM 10) Nem 10 .0% Actual / Target x Weight No Baseline Data Available 87% Overall Rating is "Excellent' based on adjectival rating. The final circle will be finalized with the Development of the JHMC Quality Management System (QMS). SO 4: Increase JHMC Revenues to Attain Financial Viability SM 6: Remittance of Collection from Lease rentals of BCDA Assets SO 5: Strengthen Compiliance Monitoring of All Business Enterprises to the Rules and Regulations of the JHSEZ No Baseline Data Available No Baseline Data Available No Baseline Data Available No Baseline Data Available Particulate Anthient Air Quality Actual / Target x Weight No scheduled DENR-EMB Inter 2.29 jug/ Nem 10.0% Actual / Target x Weight No Baseline Data Available No Baseline Data Available Particulated Anthient Air Quality Development Air Quality Development Air Quality Development System (QMS). 32 inspections per week)	Strategic Measure Formula Weight Rating System 2013 2014 Target Actual Target Actual Target 1st Quarter Actual Target 1st Quarter Actual Target 1st Quarter Actual Target 1st Quarter Actual Target 1st Quarter Ambient Air Quality Readings were conducted on the following dates and place with corresponding results and earlier place and place with particulate Matter 10 (PM10) less than 80 µg/m² Sundards on Particulate Matter 10 (PM10): less than 80 µg/m² Actual / Target x Weight 10.0% Actual / Target x Weight No Baseline Data Available 87% 95% Frequency of Spot inspections per Business Enterprises to the Rules and Regulations of the JHSEZ Actual / Target x Weight No Baseline Data Available 10.0% Actual / Target x Weight No Baseline Data Available No Baseline Data Available 10.0% Actual / Target x Weight No Baseline Data Available No Baseline Data Available 10.0% Actual / Target x Weight No Baseline Data Available No Baseline Data Available 130 32 inspections eventy are for a final care and fine the conduction on different and fine the place of 2.0 inspections per quarter No Baseline Data Available No Baseline	Strategic Measure Formula Weight Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Actual / Target x Weight Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. Non-exceedance in the JHMC set for Particulate Matter 10 (PM10) within the JHSEZ. 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Non-exceedance in JHMC	Strategic Measure Formula Weight System 2013 2014 Target Actual Target No scheduled a Date Global Feb 2015 Padigue Actual Target No Selection Target Target Actual Target No Selection Target Target No Selection Target Ta	Strategic Measure Formula Weight Rating System 2013 2014 Target Actual Target Non-exceedance in the PibNC set for Particulate Matter 10 (PM 10) within the JitSEZ. Target Actual / Target x Weight To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter 10 (PM 10) within the JitSEZ. Target Actual / Target x Weight To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter 10 (PM 10) within the JitSEZ. To Particulate Matter To Parti	Strategic Measure Formula Weight Rating System 2013 2014 Target Actual Target Actual Target Actual Target Actual Target Conditioned Ambient Air Quality Non-exceedance in the FHMC set for Mational Ambient Air Quality Summaris on Particulate Matter to (PM 10) Non Summaris on Particulate to (PM 10) Non Summ





Republic of the Philippines

Department of Environment and Natural Resources

Cordillera Administrative Region DENR Compound, Gibraltar, Baguio City Tel. No. (074) 446-6440, (074) 442-3896

May 19, 2015

JAMIE ELOISE M. AGBAYANI, MD

President / CEO
John Hay Management Corporation (JHMC)
Camp John Hay, Baguio City

Office of the Regional Director

EMB-CAR

RELEASED

RV QMB Date 5 20 15

Dear Dr. Agbayani:

Forwarding a copy of the report prepared by this Office on the Ambient Air Quality Sampling and Monitoring conducted for the First (1st) Quarter 2015 within the Baguio, La Trinidad, Itogon, Sablan, Tuba and Tublay (BLISTT) Airshed.

For your information and perusal.

Very truly yours,

ENGR. ALEX C. LUIS
OIC, Office of the Regional
Director



Republic of the Philippines

Department of Environment and Natural Resources

ENVIRONMENTAL MANAGEMENT BUREAU

Cordillera Administrative Region DENR Compound, Gibraltar, Baguio City Tel. No. (074) 446-6440, (074) 442-3896

May 18, 2015

MEMORANDUM

FROM

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Office of the

CANA PARAMATAR

FOR : The OIC, Office of the Regional Director

THRU : ALEX C. LUIS

OIC-Chief, Environmental Monitoring and Enforcement

Division

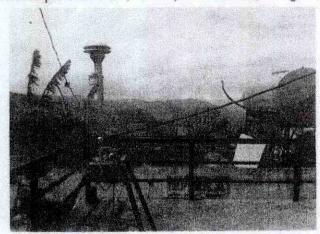
Ambient Monitoring and Technical Services Section

FIRST QUARTER (2015) AMBIENT AIR QUALITY SAMPLING AND MONITORING CONDUCTED WITHIN THE (BAGUIO, LA TRINIDAD, ITOGON,

SABLAN, TUBA AND TUBLAY) BLISTT AREAS.

As part of the mandate of this Office on the implementation of Republic Act (R.A.) 8749 known as the "Philippine Clean Air Act of 1999" and its Implementing Rules and Regulations, the Ambient Monitoring and Technical Services Section of the Environmental Monitoring and Enforcement Division conducted twenty-four (24) hours exposure ambient air quality sampling and monitoring at established sampling stations within the BLISTT area. The sampling stations were the following: Municipal Hall Grounds, Acop, Caponga, Tublay; Municipal Hall Grounds, Poblacion, Sablan; EMB Compound, Gibraltar, Baguio City; Municipal Hall Park, Km. 5, La Trinidad, Benguet;

Provincial Capitol, Km. 6, La Trinidad, Benguet; Mile Hi Center, Camp John Hay, Baguio City; Municipal Hall Grounds, Poblacion, Itogon; Baguio Ayalaland Technohub. Camp John Hay. City: Municipal Hall Baguio Grounds. Poblacion, Tuba. Benguet; and Plaza Garden, Central Business District, Baguio City. The said sampling stations collected for particulate matter (PM 10) using the "BGI PQ100" High Volume Sampler.



The following are the results of sampling & monitoring:

A) Municipal Hall Grounds, Acop, Caponga, Tublay

Date and time of	Filter Paper	Net weight of Particles	Standard Volume	Meteorologic (sunny, fair	and cloudy,	PM ⁻¹⁰ (μg/m ³)	Air Quality
sampling	Number	(mg)	(m³)	Temperature (°C)	Ambient Conditions		Index
Feb. 12, 2015; 10:55 a.m Feb. 13, 2015; 10:55 a.m.	15-10	0.8206	21.25	18.3	Cloudy	39	Good

B) Municipal Hall Grounds, Poblacion, Sablan

Date and time of	Fifter Paper	Net weight of Particles	Standard Volume	Meteorologic (sunny, fair et	and cloudy,	PM ¹⁰ (μg/m³)	Air Quality
sampling	Number	(mg)	(m³)	Temperature (°C)	Ambient Conditions		Index
Jan. 20, 2015; 10:40 a.m Jan. 21, 2015; 11:12 a.m.	15-4	0.1983	8.32	29.7	Cloudy	26	Good

C) Municipal Hall Park, Km. 5, La Trinidad, Benguet

Date and time of	Filter Paper	Net weight of Particles	Standard Volume	Meteorologic (sunny, fair et	and cloudy,	PM ⁻¹⁰ (μg/m ³)	Air Quality
sampling	Number	(mg)	(m³)	Temperature (°C)	Ambient Conditions		Index
Feb. 17, 2015; 12:33 p.m Feb. 18, 2015; 12:33 p.m.	15-12	1.6702	21.28	21.9	Fair	79	Fair

D) Provincial Capitol, Km. 6, La Trinidad, Benguet

Date and time of	Filter Paper	Net weight of Particles	Standard Volume	Meteorologic (sunny, fair et	and cloudy,	PM ⁻¹⁰ (μg/m ³)	Air Quality
sampling	Number	(mg)	(m³)	Temperature (°C)	Ambient Conditions		Index
Feb. 16, 2015; 10:43 a.m Feb. 17, 2015; 10:43 a.m.	15-11	2.5333	21.17	24.9	Fair	121	Fair

E) Mile Hi Center, Camp John Hay, Baguio

Date and time of	Filter Paper	Net weight of Particles	Standard Volume	Meteorologic (sunny, fair et	and cloudy,	PM ⁻¹⁰ (μg/m ³)	Air Quality
sampling	Number	(mg)	(m³)	Temperature (°C)	Ambient Conditions		Index
Feb. 3, 2015; 9:37 a.m Feb. 4, 2015; 9:37 a.m.	15-7	0.4720	21.08	17.5	Sunny	22	Good

F) Municipal Hall Grounds, Poblacion, Itogon

Date and time of	Filter Paper	Net weight of Particles	Standard Volume	Meteorologic (sunny, fair et	and cloudy,	PM ¹⁰ (μg/m³)	Air Quality
sampling	Number	(mg)	(m³)	Temperature (°C)	Ambient Conditions		Index
Feb. 5, 2015; 12:13 p.m Feb. 6, 2015; 12:13 p.m.	15-9	0.8719	22.50	24.3	Partly Cloudy	39	Good

G) Baguio Ayalaland Technohub, Camp John Hay, Baguio City

Date and time of	Filter Paper	Net weight of Particles	Standard Volume	Meteorologic (sunny, fair	and cloudy,	PM ⁻¹⁰ (μg/m ³)	Air Quality
sampling	Number	(mg)	(m³)	Temperature (°C)	Ambient Conditions		Index
Feb. 4, 2015; 10:40 a.m Feb. 5, 2015; 10:40 a.m.	15-8	0.8023	20.61	17.2	Sunny	38	Good

H) Municipal Hall Grounds, Poblacion, Tuba, Benguet

Date and time of sampling	Filter Paper	Net weight of Particles	Standard Volume (m³)	Meteoro condi (sunny, fair etc	tions and cloudy,	РМ ⁻¹⁰ (µg/m³)	Air Quality Index
	Number	(mg)	(m)	Temperature (°C)	Ambient Conditions		mucx
Jan. 21, 2015; 11:52 a.m Jan. 22, 2015; 11:52 a.m.	15-5	0.4630	21.46	18.5	Cloudy	22	Good

I) EMB Compound, Gibraltar, Baguio City

Date and time of	Filter Paper	Net weight of	Standard Volume	(sunny, fair	gical conditions air and cloudy, etc)	PM ⁻¹⁰ (μg/m ³)	Air Quality
sampling	Number	Particles (mg)	(m ³)	Temperature (°C)	Ambient Conditions	(mga)	Index
Jan. 22, 2015; 1:08 p.m Jan. 23, 2015; 1:08 p.m.	15-6	0.6248	21.02	18.0	Cloudy	30	Good
Mar. 11, 2015; 11:00 a.m Mar. 12, 2015; 11:00 a.m.	15-13	0.9719	21.11	19.1	Fair	46	Good
Mar. 12, 2015; 1:20 p.m Mar. 13, 2015; 1:20 p.m.	15-14	1.6539	21.00	19.8	Cloudy	79	Fair

J) Plaza Garden, Central Business District, Baguio City

Date and time of sampling	Filter Paper	Net weight of Particles	Standard Volume	Meteoro condi (sunny, fair etc	tions and cloudy,	PM ⁻¹⁰ (μg/m³)	Air Quality Index
	Number	(mg)	(m ³)	Temperature (°C)	Ambient Conditions		Index
Jan. 13, 2015; 10:32 a.m Jan. 14, 2015; 10:32 a.m.	15-1	2.1402	21.04	19.7	Partly Cloudy	102	Fair
Jan. 14, 2015; 10:36 a.m (Jan. 15, 2015; 10:36 a.m.	15-2	2.3574	21.07	19.7	Partly Cloudy	122	Fair
Jan. 15, 2015; 11:41 a.m Jan. 16, 2015; 11:41 a.m.	15-3	2.3284	20.95	20.8	Partly Cloudy	111	Fair
Mar. 17, 2015; 10:10 a.m Mar. 18, 2015; 10:10 a.m.	15-15	3.6412	20.93	20.9	Partly Cloudy	174	healthy for Sensitive Groups (USG)
Mar. 18, 2015; 11:34 a.m Mar. 19, 2015; 11:34 a.m.	15-16	3.4911	20.90	21.0	Partly Cloudy	167	Un- healthy for Sensitive Groups (USG)

Date and time of sampling	Filter Net Paper weight of Number Particles (mg)		Standard Volume (m³)	Meteorological conditions (sunny, fair and cloudy, etc)		PM ⁽⁰ (μg/m³)	Air Quality Index
				Temperature (°C)	Ambient Conditions		
Mar. 19, 2015; 2:55 p.m Mar. 20, 2015; 2:55 p.m.	15-17	5.6810	20.78	23.1	Partly Cloudy	274	Un- healthy for Sensitive Groups (USG)
Mar. 25, 2015; 10:19 a.m Mar. 26, 2015; 10:19 a.m.	15-18	2.6516	20.90	21.6	Partly Cloudy	127	Fair
Mar. 26, 2015; 11:06 a.m Mar. 27, 2015; 11:06 a.m.	15-19	2.2796	21.10	20.0	Rainy	108	Fair

K) Lakeside, Burnham Park, Baguio City

DATE January 2015	Particulate Matter (PM ⁻¹⁰) µg/m ³	Particulate Matter (PM- ^{2.5}) µg/m ³	Wind Direction Azimuth degrees	Wind Speed m/s	DATE January 2015	Particulate Matter (PM ⁻¹⁰) µg/m ³	Particulate Matter (PM-25) µg/m3	Wind Direction Azimuth degrees	Wind Speed m/s
1	*	*	*	*	17	20.000	9	144	1.2
2 -	*	*	*	*	18		23	162	0.5
3		11	151	1.1	19		17	175	0.6
4		23	170	0.6	20	31	20	194	0.6
5	1	21	203	0.6	21	0	22	274	0.6
6	OF THE PARTY.	23	223	0.6	22		20	230	0.9
7	1	25	238	0.5	23	2.	16	159	1.1
8	THE	14	163	0.8	24	130	11	132	1.4
9		9	138	0.9	25		28	190	0.6
10		11	169	1.1	26		24	168	0.7
11		11	159	1.1	27		27	169	0.7
12		8	136	1.8	28		23	166	0.8
13		19	183	0.9	29	3.7	27	174	0.9
14		25	204	0.6	30	1	22	168	0.7
15		27	162	0.6	31	*	4	*	R
16		21	194	0.6					
National Ambient Air Quality Guideline Value (NAAOGV)	150 µg/m³	75 μg/m³				150 µg/m³	75 µg/m³		

* Null data

0 – 54 μg/m³	toul	155 - 254 μg/m³	Unhealthy for Sensitive Groups	355 – 424 μg/m³	Acutely Unbeatthy
55-154 μg/m³	Fair	255 – 354 μg/m³	Very Unhealthy	425 – 504 μg/m ³	Emergency

DATE February 2015	Particulate Matter (PM ⁻¹⁰) µg/m ³	Particulate Matter (PM ^{-2.5}) µg/m ³	Wind Direction Azimuth degrees	Wind Speed m/s	DATE February 2015	Particulate Matter (PM ⁻¹⁰) µg/m ³	Particulate Matter (PM ^{2.5}) µg/m ¹	Wind Direction Azimuth degrees	Wind Speed m/s
1		20	136	1.3	15		7	135	1.5
2	The state of the state of	12	153	1.0	16		17	201	0.6
3	Control of the Contro	22	170	0.7	17		26	232	0.6
4		17	173	1.0	18		21	192	0.6
5	1	19	181	0.6	19		18	183	0.6
6		19	189	0.6	20	20	12	175	1.0
7	-	26	185	0.6	21	18	17	230	0.9
8	1	32	172	0.5	22		31	176	0.6
9	And the second	13	154	1.1	23	56	39	180	0.6
10	- Company of the second	18	163	1.1	24	59	40	164	0.7
11		22	189	0.7	25		P	ŵ	*
12	- p. 464 - 1 1124 - 200 - 2-	26	202	0.7	26	THE PARK	34	178	0.8
13	To distance in the	14	148	0.8	27	59	37	170	0.7
14		7	135	2.2	28	88	45	185	0.7
National Ambient Air Quality Guideline Value (NAAQGV)	150 µg/m³	75 μg/m ⁵				150 µg/m³	75 μg/m³		

* Null data

DATE March 2015	Particulate Matter (PM-10) pg/m ³	Particulate Matter (PM ²⁻⁵) µg/m ³	Wind Direction Azimuth degrees	Wind Speed m/s	DATE March 2015	Particulate Matter (PM ¹⁰) µg/m ³	Particulate Matter (PM ^{2.5}) µg/m ³	Wind Direction Azimuth degrees	Wind Speed m/s
1		35	208	0.7	17	60	37	173	0.6
2	75	52	172	0.8	18	64	41	196	0.7
3	71	47	178	0.6	19	8.3	57	158	0.7
4	66	42	170	0.7	20	104	68	182	0.6
5	61	41	166	0.7	21	93	62	185	0.7
6	81	50	179	0.6	22	AUGIT AUGIT	24	174	0.7
7	99	67	181	0.6	23		9	155	1.2
8	112	59	189	0.6	24		13	153	1.0
9	(55	35	226	1.0	25		14	165	0.9
10	58	40	190	0.8	26		19	146	1.0
11	TARREST AND THE	28	183	0.8	27	it.	車	rļi.	*
12		28	233	0.7	28	in the second	28	168	0.8
13	1	27	190	0.5	29		22	185	0.7
14		33	164	0.5	30	11	29	174	0.8
15		33	176	0.6	31	5,	36	181	0.7
16	60	40	189	0.6					
National Ambient Air Quality Guideline Value (NAAQGV)	150 µg/m³	75 µg/m³				150 μg/m³	75 μg/m³		

* Null data

0 – 54 μg/m³	Facility	155 – 254 μg/m³	Unhealthy for Sensitive Groups	355 – 424 μg/m³	Acutely Unhealthy
55 - 154 μg/m³	Fair	255 – 354 μg/m³	Very Unhealthy	425 – 504 μg/m³	Emergency

Remarks

There were ten (10) PM⁻¹⁰ monitoring stations using manual method for sampling at established stations within the Baguio, La Trinidad, Itogon, Sablan, Tuba and Tublay (BLISTT) Airshed. Except for the Plaza Garden station located at the Central Business District of Baguio City, most results obtained from BLISTT sampling stations did not exceed the National Ambient Air Quality Guideline Value (NAAQGV) at 150 μg/m³ for PM⁻¹⁰. In general, results from seven (7) sampling stations were within the "Good" air quality index range which is from 0 - 54 μg/m³. Results from two (2) sampling stations particularly both within La Trinidad, Benguet were within the "Fair" air quality index range which is from 55-154 μg/m³. Results for Plaza Garden Station on the other hand ranged within "Fair" and "Unhealthy for Sensitive Groups (USG). Weather conditions during sampling were generally fair and mostly cloudy with rains throughout the day. Two (2) sampling stations showed decrease of PM⁻¹⁰ levels as compared with results obtained from the 4th quarter 2014 as shown on the following table.

	PM 10 Resu	PM 19 Results (µg/m³)			
Sampling Station	4 th Quarter 2014	1 st Quarter 2015	Percent Decrease		
Municipal Hall Grounds, Sablan, Benguet	35	26	26%		
Mile Hi Center, Camp John Hay, Baguio City	24	22	8%		

Six (6) stations showed increase in PM 10 levels as compared with obtained results in the 4th quarter 2014 as shown on the table below. Though at one hundred

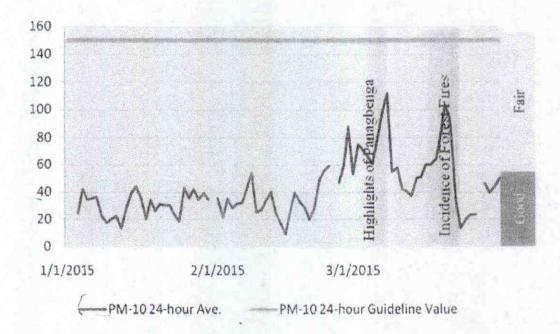
seventy five percent (175%) increase was noted for sample result obtained at Tuba, Benguet, still this is way below the NAAQGV. PM-10 levels obtained at the station located at the Provincial Capitol, Km. 6, La Trinidad, Benguet maintains at "Fair" levels, whereby twenty seven percent (27%) increase was noted as compared from results of 4th quarter 2014. It was noted that during sampling, construction activities were ongoing adjacent to the Provincial Capitol station.



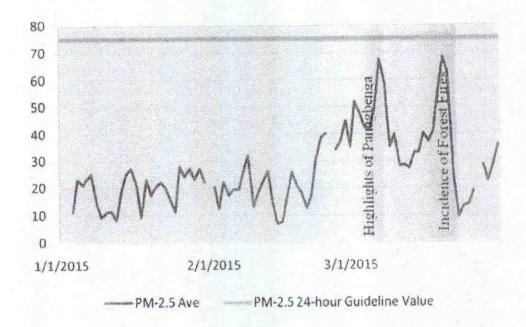
On-going construction of a footbridge / overpass approximately ten (10) meters from the sampling station

	PM 10 Rest	Percent		
Sampling Station	4th Quarter 2014	1 st Quarter 2015	Increase	
Provincial Capitol, Km. 6, La Trinidad, Benguet	95	121	27%	
Municipal Hall Grounds, Itogon, Benguet	26	39	50%	
Baguio Ayala Land TechnoHub, Camp John Hay, Baguio City	36	38	6%	
Municipal Hall Park, Km. 5, La Trinidad, Benguet	64	79	19%	
Municipal Hall Grounds, Tuba, Benguet	8	22	175%	
Municipal Hall Grounds, Tublay, Benguet	26	39	50%	

There were eighty five (85) validated PM⁻¹⁰ 24-hour averages for the first (1st) quarter of 2015 covering the months of January, February and March. Generally, the PM⁻¹⁰ levels are within the NAAQGV at 150 µg/m³. Results as shown on the following graph indicates an increase during the highlights of the Panagbenga Festival which relates to increased vehicle utilization especially by arriving tourists. Closure of major roads like Session Road during the Session Road in Bloom event and Lake Drive for the Baguio Blooms Event thus traffic congestions were observed. Other than the Panagbenga event, increased incidence of forest fires from nearby municipalities of Tuba and Bokod, Benguet contributed to levels of PM⁻¹⁰. Sudden decrease of PM⁻¹⁰ levels followed by series of heavy rains reveals that particulates produced from forest / grass fires even from long distant areas add up to suspended PM⁻¹⁰ in the air within the coverage area of the Burnham Park station.



Also, there were 85 validated PM^{-2.5} 24-hour averages that are within the NAAQGV at 75 μg/m³. Levels of PM^{-2.5} revealed its relation to the similar concentration trend of PM⁻¹⁰. Occurrence of extraordinary activities such as the Panagbenga festival and forest fires contributed to the sharp increase of PM^{-2.5} levels. It should be also noted that there were two (2) PM^{-2.5} concentrations that are only about nine percent (9%) below from the guideline value where each concentration value occurred on said extraordinary periods. Hence, engaged utilization of vehicles especially during special ocassions or activities and likewise transboundary pollutants coming from widespread forest / grass fires are large sources of suspended particulates.



Observed PM¹⁰ Levels relative to Wind Direction



Southwest Wind from Kisad Road area generally passes through Children Park occurs from 10:00 AM - 5:00 PM

Southeast Wind from Athletic Bowl area generally passes through Melvin Jones occurs from 10:00 AM - 5:00 PM

Recommendations

On-going construction activities within vicinities of sampling stations were noted factors that may contribute to the increase in PM 10. Fair weather conditions especially with intermittent rains though helped in washing down suspended of particulates in the air, albeit the large sources of particulates from aforementioned activities. Effective control measures to suppress dust suspension should be always implemented by the contract firms in all construction activities. Management to reduce occurrence of forest / grass fires should be also implemented. Particulate matter produced from wild forest / grass fires are also known to be transported by winds as long-range transboundary pollutants and may persist to be suspended in air for a long period especially fine particulates like PM 25.

The installation of the Particulate Monitoring System (PMS) for PM⁻¹⁰ and PM^{-2.5} confirms that particulates generally affect areas where there are no immediate point sources. Increased utilization of motor vehicles especially during the Panaghenga Festival escalated levels of particulates within the Burnham PMS Station. Highest number of observed PM⁻¹⁰ levels in relation to wind direction comes from the southeast direction where the old library site parking area is located. Likewise, recorded wind speeds are generally rated as light wind based on Beaufort Wind Force Scale indicates poor dispersion of air pollutants especially particulates. Thus, it is essential that the Local Government of Baguio should consider other measures besides from number coding to minimize the number of plying vehicles notably private vehicles which was observed to occupy most of the major roads during said event. Designation of parking areas outside the Central Business District may be considered as means to dissuade people to utilize their vehicles and opt to use public transportation, walking or bicycling.

Continued use of the PM ¹⁰ sampler in established sampling stations within the BLISTT Airshed is fundamental to the Air Quality Monitoring Program of the Office. The results provided to the concerned Local Government Units are being used in their development of environmental programs and policies especially for the improvement of air quality on identified areas. Maintenance activities of the PMS station at Burnham Park, Baguio City should be implemented for its continuous operation. Likewise the immediate rehabilitation of the Continuous Automatic Ambient Air Quality Monitoring System with Telemetry located at Plaza Garden, Central Business District should be implemented especially with the needed replacement of the existing equipment shelter / housing to reinstate the sampling equipment.

Monitoring of other air quality parameters like SOx, NOx, and CO would also help determine other sources of pollutants. Hence, acquisition of sampling equipment is necessary for the monitoring of air quality within the region.

Expanding the coverage of air quality monitoring in emerging urban centers within the Cordillera Region will be useful in the establishment of air quality trends. Thus, sampling and monitoring may be arranged at capital towns in all provinces within the Cordillera Administrative Region.

A copy of this report should be furnished to the concerned LGUs and other agencies for their reference.

For your information.

MARK ANTHONY P. SOLANO Technical Aide

Noted by:

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