

STATE OF COLORADO

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Executive Director and Chief Medical Officer

Dedicated to protecting and improving the health and environment of the people of Colorado

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Colorado Department
of Public Health
and Environment

Date: TBD

Richard Payton
8P-AR
US Environmental Protection Agency Region VIII
1595 Wynkoop Street
Denver, CO 80202-1129

Dear Mr. Payton,

As required, the Colorado Department of Public Health and Environment's (CDPHE) Air Pollution Control Division (APCD) is submitting four network site modification request forms for the proposed decommissioning of the Carriage site (ozone and meteorology), the commissioning of sulfur dioxide monitoring at the Colorado Springs Highway 24 site, the commissioning of ozone and meteorology monitors at the Lay Peak site, and the commissioning of Weld County Tower meteorology monitors. Sites common name, AQS ID and proposed actions are as follows:

- Carriage (Denver) AQS ID: 08-031-0014
Removal - Ozone SLAMS Monitor
Removal - Meteorological Special Purpose Monitors
- Highway 24 (Colorado Springs) AQS ID: 08-041-0015
Addition - Sulfur Dioxide SLAMS Monitor
- Lay Peak (Moffat County) AQS ID: 08-081-0002
Addition - Ozone Special Purpose Monitor
Addition - Meteorological Special Purpose Monitors
- Weld County Tower (Greeley) AQS ID: 08-123-0009
Addition - Meteorological Special Purpose Monitors

This letter and the enclosed network modification forms were made available for a 30 day public comment period from TBD to TBD.

Carriage - AQS ID: 08-031-0014

The proposed last sample to be collected from the Carriage ozone monitor and meteorological sensors is planned for December 31, 2012 at 23:00 hr, with the shelter, monitor and sensors to be removed early January 2013 as weather and time permits. The decommission of the Carriage site was initially identified in Colorado's 2010 5-Year Network Assessment and slated for removal in Colorado's 2012 Annual Network Plan. The APCD plans to shut down the Carriage ozone monitor for the following reasons:

- The site no longer meets siting criteria for both ozone and meteorology. The dripline of tree located to the ENE of the ozone sample probe inlet is within 10 meters of the probe. Additionally, a different tree located to the ENE and a tree located SE of the sample probe inlet are obstacles. These trees are also obstacles to the wind speed and direction measures. All of the above listed trees are located on private land and are outside the control of the APCD. Exact measurements to the above mentioned trees can be provided upon request.
- The Carriage site has become increasingly redundant with the new ozone analyzer at CAMP and the proposed La Casa NCore ozone analyzer (to be installed in the fall of 2012). If the Carriage site is decommissioned on December 31, 2012, one year of concurrent sampling will have occurred with CAMP ozone analyzer and 3 months of concurrent sampling will have occurred with the La Casa ozone analyzer. The closure of this monitor is in accordance with EPA's effort to disinvest in redundant sites so that resources can be reallocated to further enhance multi-pollutant sites where applicable and/or further expand the existing network as needed.

Highway 24 - AQS ID: 08-041-0015

As per the 2010 revision of the Primary Sulfur Dioxide National Ambient Air Quality Standard, Core Based Statistical Areas (CBSA) with Population Weighted Emission Index (PWEI) values in excess of 5,000 requires the operation of at least one sulfur dioxide monitor. To comply with the 2010 rule, the Colorado Springs area requires the inclusion of a sulfur dioxide monitor. The existing Highway 24 site is the proposed location for this site because of its proximity to the Drake Power Plant. While this location is not ideal, it is considered acceptable for the near term. Ultimately, the future reconstruction of the Cimarron exit will require the relocation of the Highway 24 site to a more appropriate location. The APCD plans to have the sulfur dioxide monitor operational by January 1, 2013.

Lay Peak – AQS ID: 08-081-0002

As a courtesy to the Environmental Protection Agency, the APCD is including a network modification form for the commissioning of ozone and meteorological parameters at the Lay Peak site. This site was originally installed in support of the state and federal agencies' Three-State Study Pilot Project. This site was purchased, installed and is operated by a contractor. The site began operation in August 2011 and is planned to continue operations for at least three years.

Weld County Tower - AQS ID: 08-123-0009

As a courtesy to the Environmental Protection Agency, the APCD is including a network modification form for the commissioning of meteorological parameters at the Weld County Tower site. Meteorological monitoring began on February 25, 2012 and will continue indefinitely into the future. Meteorological parameters were added at the Weld County Tower site to assist in modeling efforts in the Weld County area.

Enclosed are the associated Ambient Air Monitoring Network Modification Request Forms. If you have any questions or need further information, you can reach me at (303) 692-3232.

Sincerely,

Gregory Harshfield
Continuous Monitoring and Data Systems Support Supervisor

cc: Gordon Pierce

Enclosures:

- Attachment 1: Carriage - Ambient Air Monitoring Network Modification Form
- Attachment 2: Highway 24 - Ambient Air Monitoring Network Modification Form
- Attachment 3: Lay Peak - Ambient Air Monitoring Network Modification Form
- Attachment 4: Weld County Tower - Ambient Air Monitoring Network Modification Form

Attachment 1

Carriage - Ambient Air Monitoring Network Modification Form

EPA REGION 8 AMBIENT AIR MONITORING NETWORK MODIFICATION REQUEST FORM
(VERSION 2, 4/1/04)

DATE: 11/20/2012 CITY: Denver STATE: CO

AQS SITE ID: 08-031-0014 SITE NAME: Carriage

PROPOSED MODIFICATION/REASON WHY:
Proposed closure of ozone site and met tower. Site, established in 1983, is no longer a maximum ozone location. The site no longer meets siting criteria due to tree growth on private property surrounding the site. This ozone monitoring site will be somewhat redundant with the ozone measurements at the new NCORE site.

AIR QUALITY PARAMETER (PM10, SO2, CO, NO2, ETC.)	MONITOR TYPE (NAMS, SLAMS, SPM, TRIBAL, etc.)	CHECK ONE OR MORE OF THE APPLICABLE CATEGORIES BELOW:				LIST SAMPLER EQUIPMENT
		MAX CONC	SOURCE IMPACT	POPULATION EXPOSURE	BACKGROUND	
Ozone	SLAMS			X		API 400E
Meteorological Parameters	SPM					Met One

PROPOSED SAMPLING START / REMOVAL DATE OR DATE STARTED / REMOVED: Removal after January 1, 2013

ESTIMATED MEASUREMENTS FOR AIR QUALITY PARAMETERS:

LOCATION (LAT./LONG. OR UTM'S): Lat = 39.751767 Long = -105.030733 WGS84

SITE ELEVATION (M. MSL): 1615 Meters PROBE HEIGHT (M. AGL): 4 Meters

DISTANCE TO TREE DRIPLINE (M)	DIRECTION TO TREE	DISTANCE TO OBSTACLE (M)	DIRECTION TO OBSTACLE	OBSTACLE HEIGHT ABOVE PROBE (M)	OBSTACLE COMMENTS
Tree 1002	ENE	10	ENE	9	Tree drip line is too close.
Tree 1003	ENE	14	ENE	15	Tree is too high.
Tree 1006	SE	18	SE	14	Tree is too high.

UNRESTRICTED AIR FLOW: >270 DEG. >180 DEG. <CRITERIA _____ DEG. = 270 Degrees

DISTANCE TO FLUES/INCINERATORS (M): Not applicable.

DISTANCE TO INTERSECTIONS (M): See below DISTANCE FROM SUPPORTING STRUCTURES (M):
VERT. __1__ HORIZ. __1__

DISTANCE TO EDGE OF NEAREST ROADWAY	NAME OF ROADWAY	DIRECTION	DAILY TRAFFIC ESTIMATES	YEAR OF TRAFFIC ESTIMATES	TYPE OF ROADWAY	COMMENTS
68 Meters	24 th Avenue	NORTH			LOCAL ST	
58 Meters	Irving Street	EAST			LOCAL ST	
56 Meters	23 rd Avenue	SOUTH			LOCAL ST	
69 Meters	Julian Street	WEST			LOCAL ST	

DISTANCE TO NEAREST POINT SOURCES (MILES)	DIRECTION TO POINT SOURCES	DISTANCE TO NEAREST AREA SOURCES (MILES)	DIRECTION TO AREA SOURCES	COMMENTS
Not Applicable.				

CERTIFICATION: I certify the network modification proposed above meets all 40 CFR 58, Appendix E siting criteria, except as noted with submittal.

Printed Name: _____ Signature: _____

FOR EPA USE ONLY: Received Date: _____ Follow-up Actions: _____ Approval Status Given: _____ Email Response Date: _____ Letter Response Date: _____

FOR METEOROLOGICAL PARAMETERS ONLY:

MONITORING PURPOSE/OBJECTIVES: Data for evaluation of ozone concentrations.

PROPOSED MONITORING SCHEDULE/DURATION: Continuous

PROPOSED START / REMOVAL DATE

OR DATE STARTED / REMOVED: : Removal on / after January 1, 2013

DATA ACQUISITION SYSTEM:

PRIMARY ESC 8816	PARAMETERS:	APPLICABLE √ those that apply	SENSOR HT (M)
BACKUP DataChart	WIND SPEED/DIRECTION	Yes	10 Meters
EQUIPMENT MANUFACTURER/MODEL: MET One	SOLAR RADIATION	No	
	RELATIVE HUMIDITY	No	
WILL THE DATA BE USED FOR MODELING? YES <u>NO</u>	PRESSURE	No	
IS SITE REQUIRED FOR SIP? YES <u>NO</u>	SIGMA THETA	Yes	10 Meters
UNRESTRICTED AIRFLOW? YES <u>NO</u>	PRECIPITATION	No	
DISTANCE TO TREE DRIPLINE (M): See attached report.	TEMPERATURE	Yes	6 Meters
NEARBY TERRAIN: SMOOTH <u>ROLLING</u> ROUGH	OTHER (DESCRIBE)		

TOPOGRAPHIC FEATURES (E.G HILLS, MOUNTAINS, VALLEYS, RIDGES, BODIES OF WATER):
Urban Neighborhood.

COMMENTS: Site for met will no longer be needed if ozone is removed.

FORM KEY:**PAGE 1:**

MONITOR TYPE: NAMS = 1, SLAMS = 2, SPM = 3, TRIBAL = A

SITE ELEVATION = GROUND LEVEL ELEVATION

PROBE HEIGHT (M. AGL) = PROBE HEIGHT METERS ABOVE GROUND LEVEL

Attachment 2

Highway 24 - Ambient Air Monitoring Network Modification Form

EPA REGION 8 AMBIENT AIR MONITORING NETWORK MODIFICATION REQUEST FORM

(VERSION 2, 4/1/04)

DATE: November 20, 2012		CITY: Colorado Springs			STATE: CO	
AQS SITE ID: 080410015			SITE NAME: Highway 24			
PROPOSED MODIFICATION/REASON WHY: The Colorado Spring Highway 24 site has been a carbon monoxide monitoring site for many years. Carbon monoxide will continue to be monitored, but as a trace pollutant. An SO ₂ monitor will be added to the station. This will satisfy Colorado's requirement to monitor SO ₂ in Colorado Springs, as directed in the 2010 SO ₂ NAAQS revision.						
AIR QUALITY PARAMETER (PM10, SO ₂ , CO, NO ₂ , ETC.)	MONITOR TYPE (NAMS, SLAMS, SPM, TRIBAL, etc.)	CHECK ONE OR MORE OF THE APPLICABLE CATEGORIES BELOW:				LIST SAMPLER EQUIPMENT
		MAX CONC	SOURCE IMPACT	POPULATION EXPOSURE	BACKGROUND	
CO - Trace	SLAMS	x		x		TECO 48-TLE
SO ₂ - Trace	SLAMS	x	x	x		API 100EU
PROPOSED SAMPLING START / REMOVAL DATE OR DATE STARTED / REMOVED: On / After December 31, 2012						
ESTIMATED MEASUREMENTS FOR AIR QUALITY PARAMETERS:						
LOCATION (LAT./LONG. OR UTM' S): Lat = 38.83092 Long = -104.83927 WGS84						
SITE ELEVATION (M. MSL): 1819 Meters				PROBE HEIGHT (M. AGL): 3.6		
DISTANCE TO TREE DRIPLINE (M)	DIRECTION TO TREE	DISTANCE TO OBSTACLE (M)	DIRECTION TO OBSTACLE	OBSTACLE HEIGHT ABOVE PROBE (M)	OBSTACLE COMMENTS	
Tree 1038	E	20 Meters	E	13 Meter tree is 9.4 meters above probe.	Top of Tree is dead. Bottom 7.7 meters is alive. Tree is not an obstruction - 20 meters away.	
Tree 1039	ESE	29 Meters	ESE	12 Meter tree is 8.4 meters above probe	Tree is not an obstruction - 29 meters away.	
UNRESTRICTED AIR FLOW: >270 DEG. >180 DEG. <CRITERIA_____360_____DEG.						
DISTANCE TO FLUES/INCINERATORS (M): Not Applicable.						
DISTANCE TO INTERSECTIONS (M): See Below.			DISTANCE FROM SUPPORTING STRUCTURES (M): VERT.____0.8____HORIZ.____1____			
DISTANCE TO EDGE OF NEAREST ROADWAY	NAME OF ROADWAY	DIRECTION	DAILY TRAFFIC ESTIMATES	YEAR OF TRAFFIC ESTIMATES	TYPE OF ROADWAY	COMMENTS
137 Meters	Cucharras St	NORTH			LOCAL ST OR HY	
271 Meters	Chestnut Street	EAST			LOCAL ST OR HY	
7 Meters	Highway 24	SOUTH			LOCAL ST OR HY	
109 Meters	Eighth Street	WEST			LOCAL ST OR HY	
DISTANCE TO NEAREST POINT SOURCES (MILES)		DIRECTION TO POINT SOURCES	DISTANCE TO NEAREST AREA SOURCES (MILES)		DIRECTION TO AREA SOURCES	COMMENTS
Martin Drake Power Plant		SE - 0.5 Mile	In urban area - surrounded by sources			
CERTIFICATION: I certify the network modification proposed above meets all 40 CFR 58, Appendix E siting criteria, except as noted with submittal.						

Printed Name: _____ Signature: _____

FOR EPA USE ONLY: Received Date: _____ Follow-up Actions: _____ Approval Status
 Given: _____ Email Response Date: _____ Letter Response Date: _____

FOR METEOROLOGICAL PARAMETERS ONLY:

MONITORING PURPOSE/OBJECTIVES: There is no meteorological tower at this location.

PROPOSED MONITORING SCHEDULE/DURATION:

PROPOSED START / REMOVAL DATE
OR DATE STARTED / REMOVED:

DATA ACQUISITION SYSTEM:			
PRIMARY		PARAMETERS:	APPLICABLE √ those that apply
BACKUP			SENSOR HT (M)
		WIND SPEED/DIRECTION	
EQUIPMENT MANUFACTURER/MODEL:		SOLAR RADIATION	
		RELATIVE HUMIDITY	
WILL THE DATA BE USED FOR MODELING? YES NO		PRESSURE	
IS SITE REQUIRED FOR SIP? YES NO		SIGMA THETA	
UNRESTRICTED AIRFLOW? YES NO		PRECIPITATION	
DISTANCE TO TREE DRIPLINE (M):		TEMPERATURE	
NEARBY TERRAIN: SMOOTH ROLLING ROUGH		OTHER (DESCRIBE)	

TOPOGRAPHIC FEATURES (E.G HILLS, MOUNTAINS, VALLEYS, RIDGES, BODIES OF WATER):

COMMENTS:

FORM KEY:
PAGE 1:
 MONITOR TYPE: NAMS = 1, SLAMS = 2, SPM = 3, TRIBAL = A
 SITE ELEVATION = GROUND LEVEL ELEVATION
 PROBE HEIGHT (M. AGL) = PROBE HEIGHT METERS ABOVE GROUND LEVEL

Attachment 3

Lay Peak Ambient Air Monitoring Network Modification Form

EPA REGION 8 AMBIENT AIR MONITORING NETWORK MODIFICATION REQUEST FORM

(VERSION 2, 4/1/04)

DATE: September 14, 2012	CITY: Rural Area 10 Miles East of Maybell	STATE: CO
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AQS SITE ID: 080810002	SITE NAME: Lay Peak
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PROPOSED MODIFICATION/REASON WHY: Monitor ozone in Northwestern Colorado. This is an area that has not been monitored recently., and has been installed in support of the State and Federal Resource Managers' Three State Study. Nearby portions of Wyoming and Utah have shown high levels of ozone.

AIR QUALITY PARAMETER (PM10, SO2, CO, NO2, ETC.)	MONITOR TYPE (NAMS, SLAMS, SPM, TRIBAL, etc.)	CHECK ONE OR MORE OF THE APPLICABLE CATEGORIES BELOW:				LIST SAMPLER EQUIPMENT
		MAX CONC	SOURCE IMPACT	POPULATION EXPOSURE	BACKGROUND	
Ozone	SLAMS				X	API 400E
Met Tower	SLAMS					Met One

PROPOSED SAMPLING START / REMOVAL DATE OR DATE STARTED / REMOVED: Station has been in-place as an SPM for a year. Monitoring started Aug 16, 2011.

ESTIMATED MEASUREMENTS FOR AIR QUALITY PARAMETERS:

LOCATION (LAT./LONG. OR UTM' S): Lat 40.506946 Long -107.891109 WGS84

SITE ELEVATION (M. MSL): 1902 Meters PROBE HEIGHT (M. AGL): 4.5 Meters

DISTANCE TO TREE DRIPLINE (M)	DIRECTION TO TREE	DISTANCE TO OBSTACLE (M)	DIRECTION TO OBSTACLE	OBSTACLE HEIGHT ABOVE PROBE (M)	OBSTACLE COMMENTS
No trees at site					
No obstacles at site.					

UNRESTRICTED AIR FLOW: >270 DEG. >180 DEG. <CRITERIA___360_____DEG.

DISTANCE TO FLUES/INCINERATORS (M): Not applicable

DISTANCE TO INTERSECTIONS (M): 2470 Meters DISTANCE FROM SUPPORTING STRUCTURES (M):
VERT. ___1.5___ HORIZ. ___0___

DISTANCE TO EDGE OF NEAREST ROADWAY	NAME OF ROADWAY	DIRECTION	DAILY TRAFFIC ESTIMATES	YEAR OF TRAFFIC ESTIMATES	TYPE OF ROADWAY	COMMENTS
~ 1800 Meters	US Highway 40	NORTH	910	2010	MAJOR ST OR HY	
		EAST				
		SOUTH				
~ 35 Meters	County Road 17	WEST	50	2011	LOCAL ST OR HY	

DISTANCE TO NEAREST POINT SOURCES (MILES)	DIRECTION TO POINT SOURCES	DISTANCE TO NEAREST AREA SOURCES (MILES)	DIRECTION TO AREA SOURCES	COMMENTS
Not applicable		Not applicable		

CERTIFICATION: I certify the network modification proposed above meets all 40 CFR 58, Appendix E siting criteria, except as noted with submittal.

Printed Name: _____ Signature: _____

FOR EPA USE ONLY: Received Date: _____ Follow-up Actions: _____ Approval Status
 Given: _____ Email Response Date: _____ Letter Response Date: _____

FOR METEOROLOGICAL PARAMETERS ONLY:

MONITORING PURPOSE/OBJECTIVES: Monitor meteorology to assess ozone monitoring results.

PROPOSED MONITORING SCHEDULE/DURATION: Continuous, as long as ozone is run.

PROPOSED START / REMOVAL DATE
 OR DATE STARTED / REMOVED: Tower has been in-place for a year, as an SPM.

DATA ACQUISITION SYSTEM:

PRIMARY Run by Air Resource Specialists under state contract	PARAMETERS:	APPLICABLE √ those that apply	SENSOR HT (M)
BACKUP None	WIND SPEED/DIRECTION	Yes	10
EQUIPMENT MANUFACTURER/MODEL: MetOne	SOLAR RADIATION	Yes	
	RELATIVE HUMIDITY	Yes	
WILL THE DATA BE USED FOR MODELING? <u>YES</u> NO	PRESSURE	Yes	
IS SITE REQUIRED FOR SIP? YES <u>NO</u>	SIGMA THETA	Yes	10
UNRESTRICTED AIRFLOW? <u>YES</u> NO	PRECIPITATION	No	
DISTANCE TO TREE DRIPLINE (M): No trees in area.	TEMPERATURE	Yes	
NEARBY TERRAIN: SMOOTH <u>ROLLING</u> ROUGH	OTHER (DESCRIBE)	Delta Temperature	

TOPOGRAPHIC FEATURES (E.G HILLS, MOUNTAINS, VALLEYS, RIDGES, BODIES OF WATER):

Rolling terrain with hills - see site diagrams.

COMMENTS: Site is run by a subcontractor for the State of Colorado. Current contractor is Air Resource Specialists of Fort Collins, CO.

FORM KEY:

PAGE 1:

MONITOR TYPE: NAMS = 1, SLAMS = 2, SPM = 3, TRIBAL = A
 SITE ELEVATION = GROUND LEVEL ELEVATION
 PROBE HEIGHT (M. AGL) = PROBE HEIGHT METERS ABOVE GROUND LEVEL

Attachment 4

Weld County Tower Ambient Air Monitoring Network Modification Form

EPA REGION 8 AMBIENT AIR MONITORING NETWORK MODIFICATION REQUEST FORM

(VERSION 2, 4/1/04)

DATE: November 21, 2012 CITY: Greeley STATE: Colorado

AQS SITE ID: 08-123-0009 SITE NAME: Weld County Tower

PROPOSED MODIFICATION/REASON WHY: APCD is adding a meteorological tower to this ozone monitoring location. The new tower will enable the collection of wind data. The inclusion of meteorological data in the Weld County area will improve prediction capabilities for high pollution forecasting, allow improved analysis of high events, and enhance the accuracy of air quality models.

AIR QUALITY PARAMETER (PM10, SO2, CO, NO2, ETC.)	MONITOR TYPE (NAMS, SLAMS, SPM, TRIBAL, etc.)	CHECK ONE OR MORE OF THE APPLICABLE CATEGORIES BELOW:				LIST SAMPLER EQUIPMENT
		MAX CONC	SOURCE IMPACT	POPULATION EXPOSURE	BACKGROUND	
Ozone	SLAMS	X		X		API 400 E/ 401 X

PROPOSED SAMPLING START / REMOVAL DATE OR DATE STARTED / REMOVED: Ongoing for ozone. Meteorology started in 2012.

ESTIMATED MEASUREMENTS FOR AIR QUALITY PARAMETERS:

LOCATION (LAT./LONG. OR UTM'S): Zone 13 UTM Northing: 4470674 Easting 522288 WGS 84

SITE ELEVATION (M. MSL): 1468 PROBE HEIGHT (M. AGL): 3.8

DISTANCE TO TREE DRIPLINE (M)	DIRECTION TO TREE	DISTANCE TO OBSTACLE (M)	DIRECTION TO OBSTACLE	OBSTACLE HEIGHT ABOVE PROBE (M)	OBSTACLE COMMENTS
64	NE	_____	_____	11	Stand of willow trees. Not an obstacle.
		87	ENE	14	Building at 3101 35 th Avenue
		12	S	5	Building at Base of Weld County Tower
		23	SSE	43	Weld County Tower - Open Lattice

UNRESTRICTED AIR FLOW: >270 DEG. >180 DEG. <CRITERIA_360_____DEG.

DISTANCE TO FLUES/INCINERATORS (M): No flues

DISTANCE TO INTERSECTIONS (M): DISTANCE FROM SUPPORTING STRUCTURES (M):
VERT. 1.0 _____ HORIZ. _____ N/A _____

DISTANCE TO EDGE OF NEAREST ROADWAY	NAME OF ROADWAY	DIRECTION	DAILY TRAFFIC ESTIMATES	YEAR OF TRAFFIC ESTIMATES	TYPE OF ROADWAY	COMMENTS
		NORTH				
185	35 th Avenue	EAST			Local Highway	
		SOUTH				
		WEST				

DISTANCE TO NEAREST POINT SOURCES (MILES)	DIRECTION TO POINT SOURCES	DISTANCE TO NEAREST AREA SOURCES (MILES)	DIRECTION TO AREA SOURCES	COMMENTS
Neighborhood area - houses and				
Retail - No major sources				

CERTIFICATION: I certify the network modification proposed above meets all 40 CFR 58, Appendix E siting criteria, except as noted with submittal.

Printed Name: _____ Signature: _____

FOR METEOROLOGICAL PARAMETERS ONLY:

MONITORING PURPOSE/OBJECTIVES: Pollution forecasting, high event analysis, modeling.

PROPOSED MONITORING SCHEDULE/DURATION: Ongoing

PROPOSED START / REMOVAL DATE
 OR DATE STARTED / REMOVED: 2012 - Added tower to existing station.

DATA ACQUISITION SYSTEM:

PRIMARY AirVision

PARAMETERS:

APPLICABLE
 ✓ those that apply

SENSOR HT (M)

BACKUP Data card / strip chart for ozone. No backup for mets.

WIND SPEED/DIRECTION

X

10 M

EQUIPMENT MANUFACTURER/MODEL:

SOLAR RADIATION

Met One 010 / 020 Wind Sensors.

RELATIVE HUMIDITY

WILL THE DATA BE USED FOR MODELING? YES NO

PRESSURE

IS SITE REQUIRED FOR SIP? YES NO

SIGMA THETA

X

10 M

UNRESTRICTED AIRFLOW? YES NO

PRECIPITATION

DISTANCE TO TREE DRIPLINE (M): 64

TEMPERATURE

X

10 M

NEARBY TERRAIN: SMOOTH ROLLING ROUGH

OTHER (DESCRIBE)

TOPOGRAPHIC FEATURES (E.G HILLS, MOUNTAINS, VALLEYS, RIDGES, BODIES OF WATER):

Gently rolling area on southern edge of Greeley.

COMMENTS: Nearby trees / buildings are not obstructions. Weld County Tower hovers over site, but is an open-lattice structure.

FORM KEY:

PAGE 1:

MONITOR TYPE: NAMS = 1, SLAMS = 2, SPM = 3, TRIBAL = A

SITE ELEVATION = GROUND LEVEL ELEVATION

PROBE HEIGHT (M. AGL) = PROBE HEIGHT METERS ABOVE GROUND LEVEL