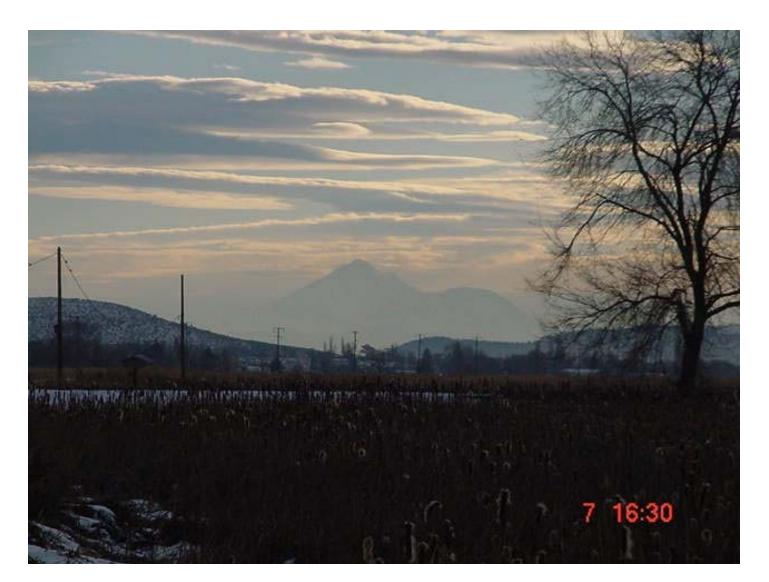


Klamath Falls

PM2.5 Intrusions - Fall 2006 And March 2008



Klamath Falls – Mount Shasta Dec 6, 2006





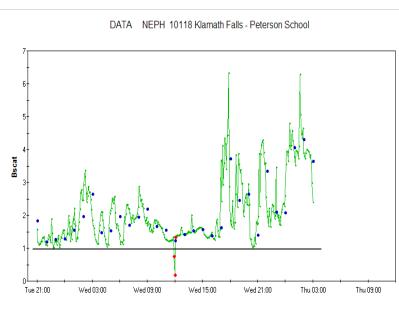
Department of Environmental

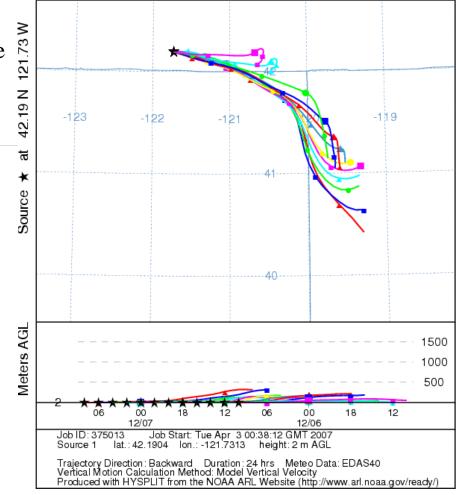
Quality

Old AQI = 88 Moderate New AQI = 98 Moderate

Klamath Falls Backward Trajectory 12-06-06

NOAA HYSPLIT MODEL
Backward trajectories ending at 08 UTC 07 Dec 06
EDAS Meteorological Data







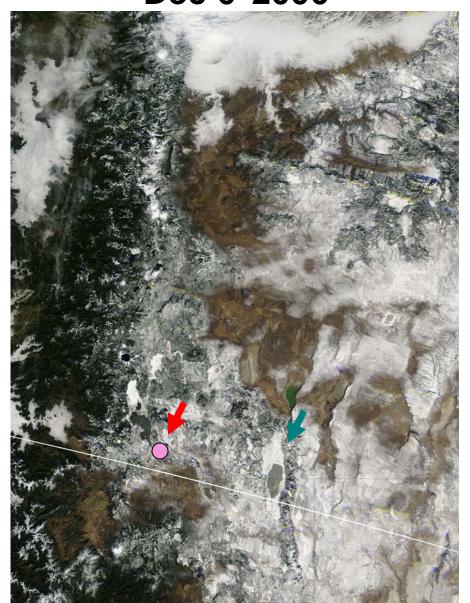
Environmental

Quality

Oregon Burned 300 ac 1500 Tons Klamath-Lake Dist.

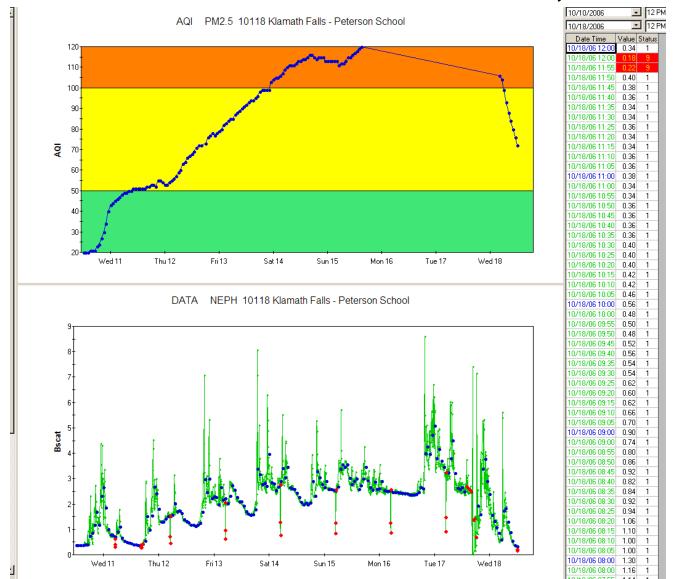
Unfav. Burning Sit.
Poor Smoke Dispersal
25 miles from PA
Not larger than 500 t

Dec 6, 2006





Klamath Falls – October 11 – 18, 2006





Lakeview Ranger District

- 6000 acres planned
- Ignited ½
- Oct 11th began at 2PM until 5PM
- Oct 12th Began at 11AM until 4PM
- Oct 12th impacted by smoke from South
- S and SW light wind
- 12 T/ac fuel loading
- Smoke stayed in area, until hot enough to rise
- ODF Oct 12 Delay until 10AM Avoid w/in 15 mi, 35 miles if smoldering.



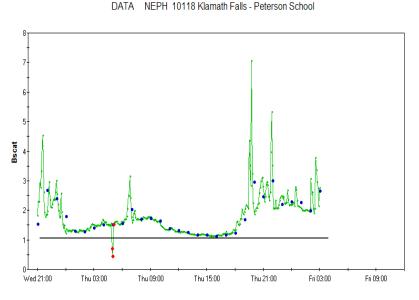
Klamath Falls – October 12, 2006 24 hours Ending 5PM

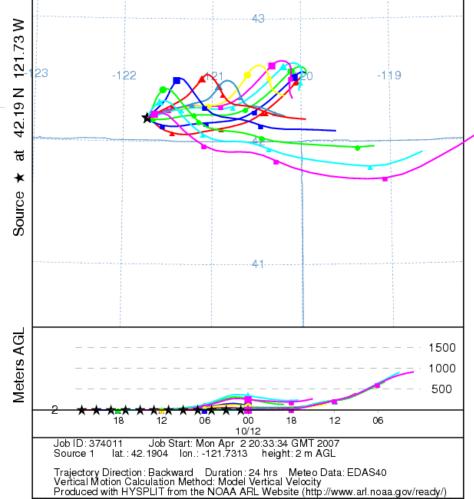
Old AQI = 65 Moderate New AQI = 69 Moderate

NOAA HYSPLIT MODEL Backward trajectories ending at 23 UTC 12 Oct 06 EDAS Meteorological Data

State of Oregon Department of Environmental Quality

Oct 11&12, 2007 ~3000 acres by Lakeview RD







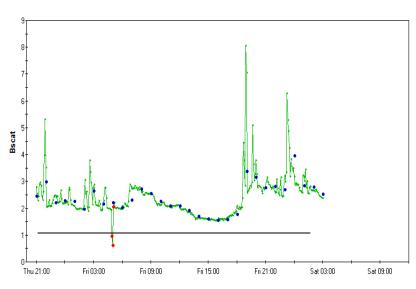
State of Oregon

Department of **Environmental**

Quality

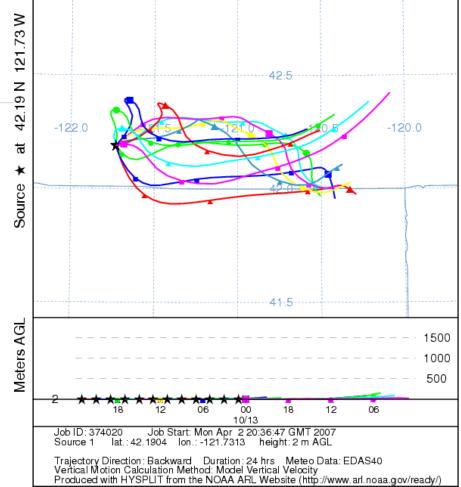
Klamath Falls – October 13, 2006 24 hours Ending 5PM

Old AQI = 84 ModerateNew AQI = 93 Moderate



DATA NEPH 10118 Klamath Falls - Peterson School

NOAA HYSPLIT MODEL Backward trajectories ending at 23 UTC 13 Oct 06 **EDAS Meteorological Data**

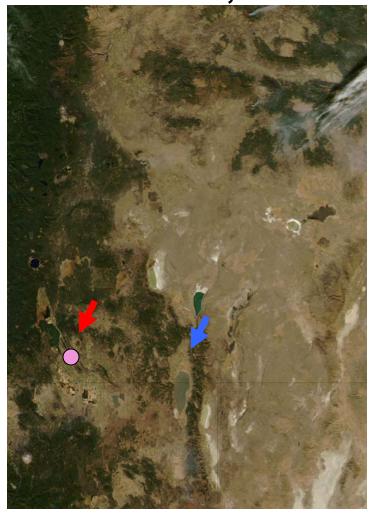




October 12, 2006



October 13, 2006





State of Oregon

Department of

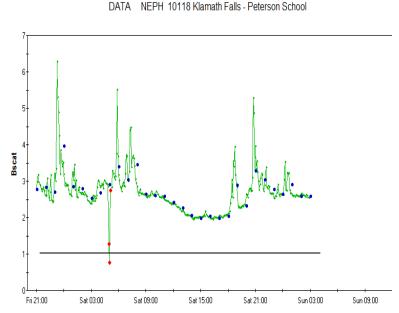
Environmental

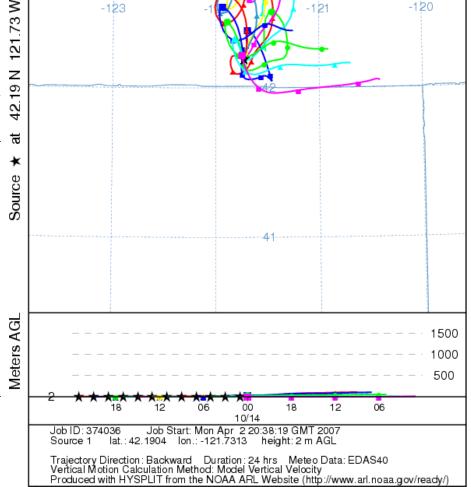
Quality

Klamath Falls – October 14, 2006 24 hours Ending 5PM

NOAA HYSPLIT MODEL
Backward trajectories ending at 23 UTC 14 Oct 06
EDAS Meteorological Data

Old AQI = 90 Moderate New AQI = 100 USG







Klamath Falls – October 15, 2006 24 hours Ending 5PM

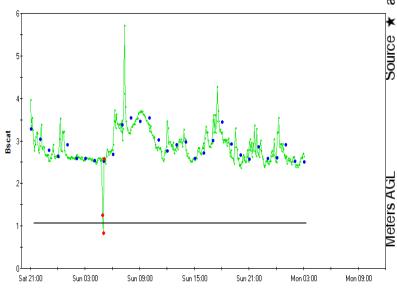
NOAA HYSPLIT MODEL Backward trajectories ending at 23 UTC 15 Oct 06 **EDAS Meteorological Data**

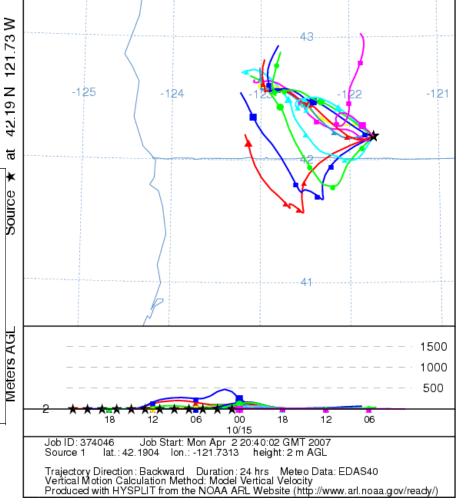
State of Oregon Department of **Environmental**

Quality

Old AQI = 97 OR USGNew AQI = 109 USG

DATA NEPH 10118 Klamath Falls - Peterson School





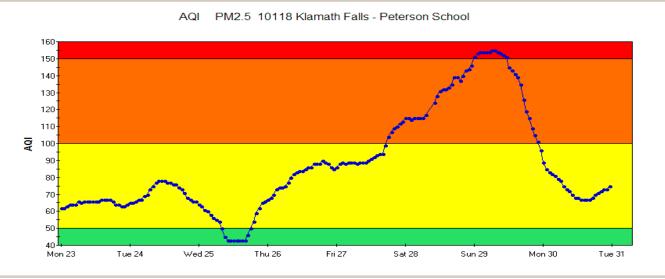
DEQ State of Oregon

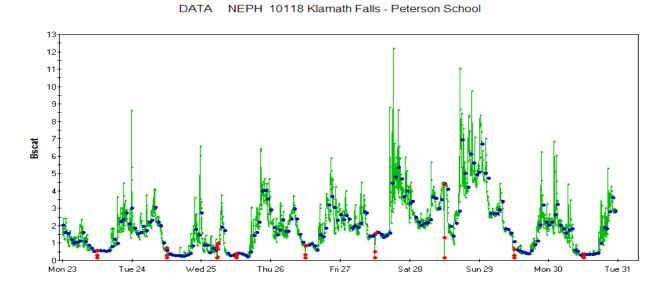
Department of

Environmental

Quality

Klamath Falls – October 23 – 30, 2006





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10/23/2006

12.



Oregon Burning

Winema NF, Freemont NF, Klamath-Lake Dist. Lakeview

- Oct 23 368 ac 7006 tons
- Oct 24 170 ac 3695 tons Avoid w/in 15 mi, avoid smold w/in 30 mi
- Oct 25 197 ac 2541 tons Poor disp. Avoid 20 mi, smold 35 mi.
- Oct 26 342 ac 6424 tons Poor disp. Avoid 20 mi, smold 35 mi.
- Oct 27 3462 ac 41,814 tons Poor disp. Avoid 20 mi, smold 35 mi.
- Oct 28 none
- Oct 29 none





State of Oregon Department of **Environmental** Quality

Wed 21:00

Thu 03:00

Thu 09:00

Thu 15:00

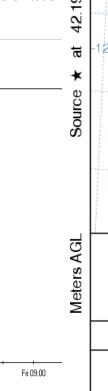
Thu 21:00

Fri 03:00

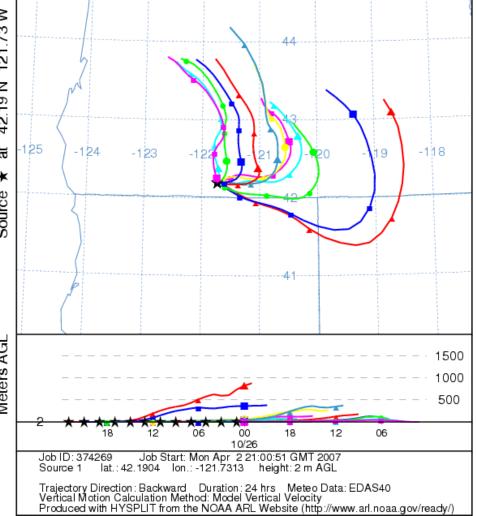
140 ac USFS Chilo **Nature Conserv** 12 ac USFW 300 ac BLM 3500 ac Lava Beds 25 ac Goose Nest

DATA NEPH 10118 Klamath Falls - Peterson School

New AQI = 94 Moderate $PM2.5 = 30 \mu g/m3$



NOÃA HYSPLIT MODEL Backward trajectories ending at 23 UTC 26 Oct 06 **EDAS Meteorological Data**

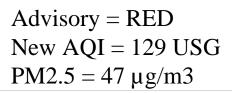




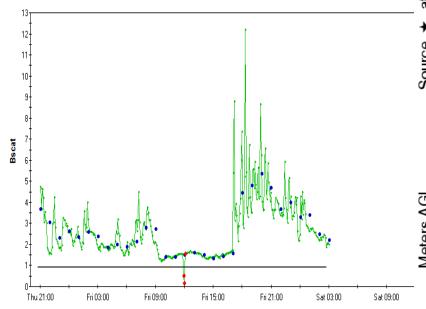
State of Oregon Department of **Environmental** Quality

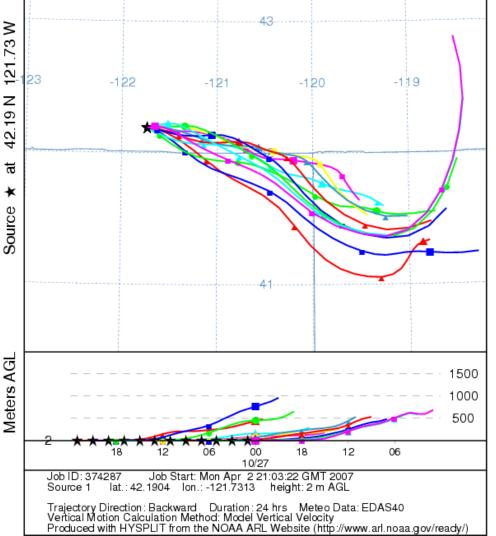
Klamath Falls – Fri. October 27, 2006 24 hours Ending 5PM NOAA HYSPLIT MODEL

Backward trajectories ending at 23 UTC 27 Oct 06 **EDAS Meteorological Data**



DATA NEPH 10118 Klamath Falls - Peterson School







October 26, 2006



October 27, 2006



Klamath Falls – Sat. October 28, 2006 24 hours Ending 5PM NOAA HYSPLIT MODEL

Backward trajectories ending at 23 UTC 28 Oct 06 **EDAS Meteorological Data**

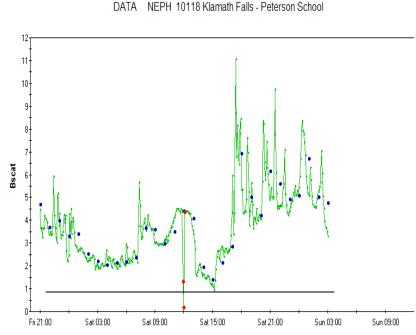


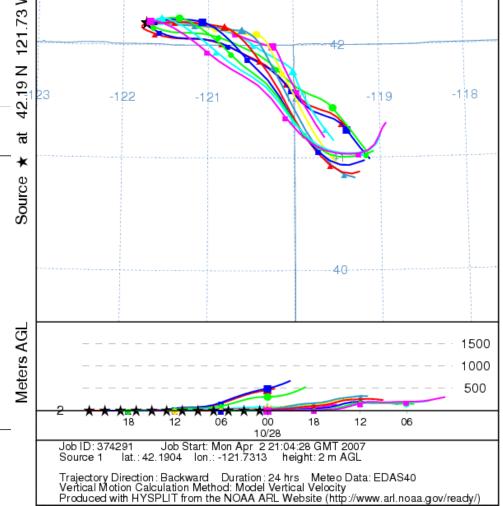
Department of

Environmental

Quality

Advisory = REDAQI = 146 USG







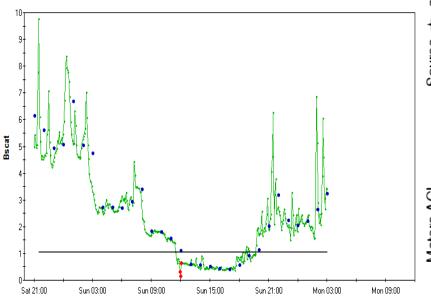
State of Oregon
Department of
Environmental
Quality

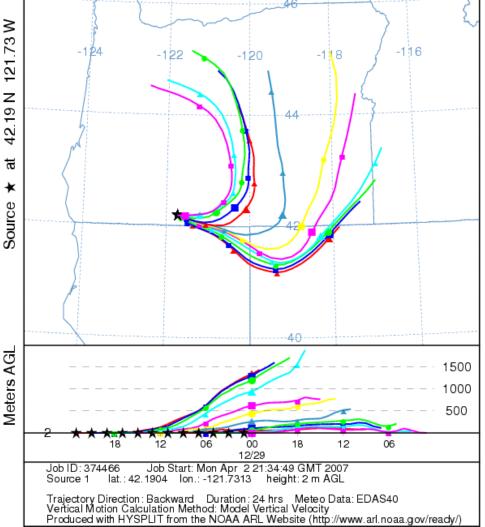
Klamath Falls – Sun. October 29, 2006 24 hours Ending 5PM NOAA HYSPLIT MODEL

NOAA HYSPLIT MODEL
Backward trajectories ending at 23 UTC 29 Dec 06
EDAS Meteorological Data

Advisory = Green AQI = 96 Moderate PM2.5 = 32.1 µg/m3

DATA NEPH 10118 Klamath Falls - Peterson School





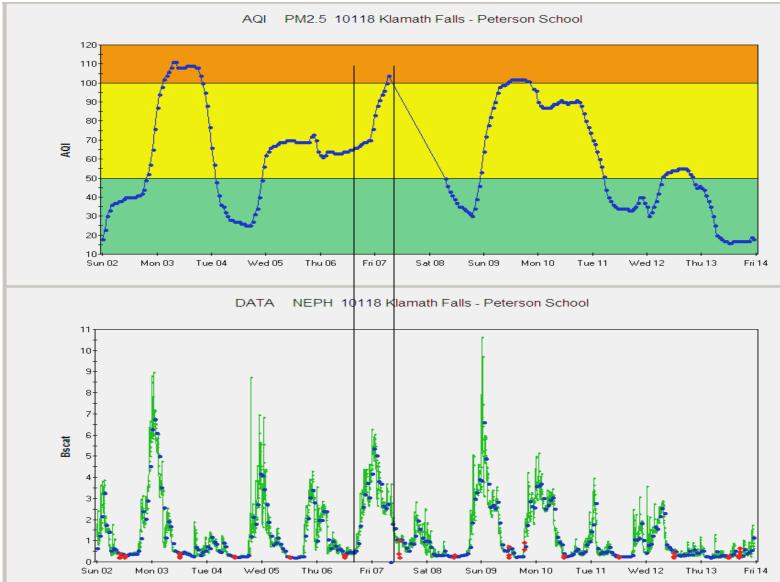


October 28, 2006





Klamath Falls – March 2-13, 2008





BLM Burn – March 6-7, 2008





BLM Burn





Smoke Intrusion Report Into Klamath Falls – 6-7 miles from monitor

- Drifting smoke and residual smoke impacts evening hours; likely from several sources including woodstoves, and burning in Tule Lake area
- 3/6/08 BLM 10 acres Beginning at 5PM -16+ hours
- Verbal instructions indicated marginal mixing and poor ventilation – No written instruction
- 4.8 b-scat above background moderate intrusion
- Subsidence behind trough created the inversion that picture shows
- Klamath County Yellow Advisory



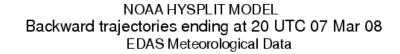
Environmental

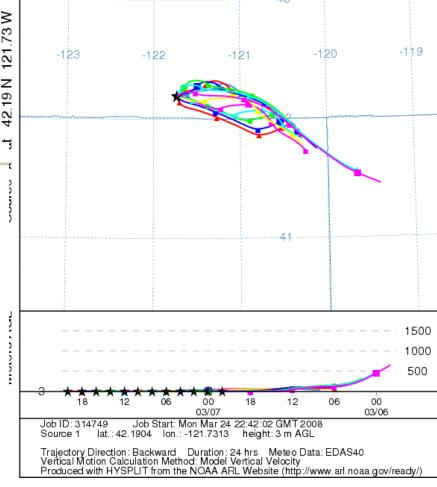
Quality

March 6 and 7, 2008 Back Trajectories

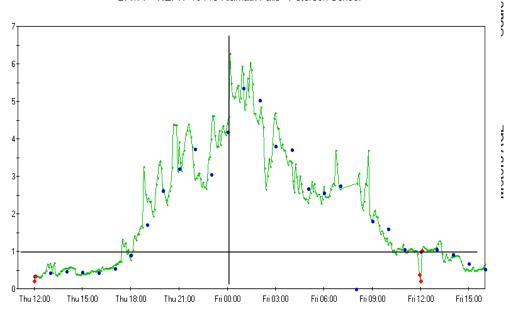
March 6 -Yellow Advisory AQI – 76

March 7-Yellow Advisory AQI - 104





DATA NEPH 10118 Klamath Falls - Peterson School





Birds Eye View 3-6-08

