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April 1, 2013

**Subject: Reference #268338, #268468, & #268469**

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In January 2013, the particulate matter analyzer at the Elk Point Station had several operational issues driven by overall unusual instrument instability. With assistance from ESRD and particulate matter analyzer specialists, LICA was able to resolve the issues however, overall instrument operational uptime less than the required 90% (reference #268338).

During a scheduled calibration and maintenance visit on February 14<sup>th</sup>, the total reduced sulphur analyzer failed its 'as found' check point at the Cold Lake South station. The cause was determined to be a failure of the scrubber material. Data were invalidated back to the last good calibration on January 31. Operational uptime was 51.2% for the month of February 2013 (reference #268468). The corrective action that LICA is taking to address this issue is to install a second (redundant) scrubber at the station. The likelihood of both scrubbers failing at the same time is relatively small.

At the end of January 2013, a snow removal crew accidentally cut the power line to the Elk Point Station. Power was restored to the station within a matter of hours however the event caused damage to the sulphur dioxide analyzer's circuitry and further instability with the particulate matter analyzer (described above). For the month of February 2013, operational uptime was 86.5% for the particulate matter analyzer and 58.8% for the sulphur dioxide analyzer (reference #268469). The corrective action that LICA took to prevent this from happening again included raising and relocating the power supply.

Should you have any questions, please don't hesitate to contact me directly at (780) 266-7068.

Respectfully,

A handwritten signature in blue ink that reads "Michael Bisaga". The signature is fluid and cursive.

Michael Bisaga

Airshed Program Manager  
Lakeland Industry and Community Association

cc (email): LICA Office