

**Client:** 1410 Wood Buffalo Environmental Association (WBEA)  
**Project:** 21113 Community Odour Monitoring Project - Anzac (AB)  
**Update:** 04/12/2015  
**Period:** September 1st to November 30th, 2015



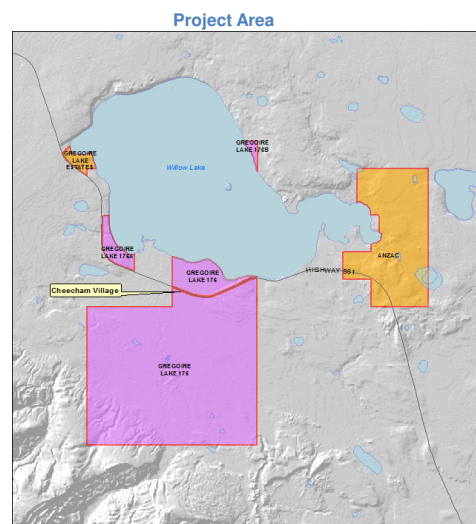
## Summary

### Context and Objectives

Odours have become a prominent issue in some communities in the Wood Buffalo region. As a result, WBEA's Human Exposure Monitoring Program (HEMP) monitors, detects and chemically characterizes odour compounds in ambient air. In addition to using specialized instrumentation to detect odours, HEMP has coordinated a community-based odour monitoring project, since 2013. This community initiative ran for the past 2 years within Fort McMurray urban community districts. As of April 2015, the community odour project has moved to its new community of focus in Anzac and surrounding First Nations communities. For this initiative, WBEA has recruited volunteer participants from Anzac and the surrounding First Nations communities.

Anzac is located on the western shore of Willow Lake in the southern region of the Regional Municipality of Wood Buffalo. It is located approximately 45 kilometres southeast of Fort McMurray and can be accessed from Alberta Highways 63 and 881. According to the 2010 census, there are 785 residents living in Anzac. Community services include a volunteer fire department, a community meeting hall, several outdoor recreational facilities and the Anzac Community Schools.

Monitoring human exposure to odours in the region is part of a long-term strategy of WBEA. Due to public concerns over odours, HEMP will continue to identify, assess and communicate how odours can be monitored and reported to community members. The main objective of WBEA's Fort McMurray Community Odour Monitoring Project is to involve the community in identifying and monitoring odours in the air in order to determine the impact on residents. The map on the right shows the area covered by this project.



The monitoring period for this project started in June 2015 after a project launch and training sessions held in April and May 2015. The monitoring period will run for 1 year and end in May 2016.

### Community Odour Observer Committee - Results Summary

The odour committee is based on the participation of volunteers from the region that supplies specific information about the various odours they perceived during their day-to-day activities. They provide observation through a designated website or by mail. The participants are invited to meet on a quarterly basis to review the results of their observations. There were 23 participants registered as volunteer at the start of the second quarter of monitoring.

Between September and November 2015, one (1) complete report providing one (1) odour observation has been received from one (1) participant. The report was received through the website or its mobile version. The odour report was a chemical/plastic smell close to highway 881 and highway 63 between Anzac and Fort McMurray.

### What's Next

The next quarterly meeting for this monitoring year will be held on December 16th, 2015. Volunteer will continue to report their odour observations.

### Community Odour Observer Committee - Results

	June to August 2015	Sept. to Nov. 2015	Dec. 2015 to Feb. 2016	March to May 2016	Total - June 2015 to May 2016
Number of Participant at the end of each period	21	23			23
Number of Participant who Reported Odours	2	1			2
Number max of Reports per Participant	1	1			2
Total Number of Complete Reports	2	1			3
Reports by card / phone / email	0	0			0
Reports by website / smartphone	2	1			3
Total Number of Complete Observations	2	1			3

#### Definitions:

**Participant:** registered volunteer for the community odour monitoring project for 2015-2016.

**Report:** a complete report is one submission of information from a participant. A report may list more than one type of odour perceived (or observation). A report must be complete to be analysed.

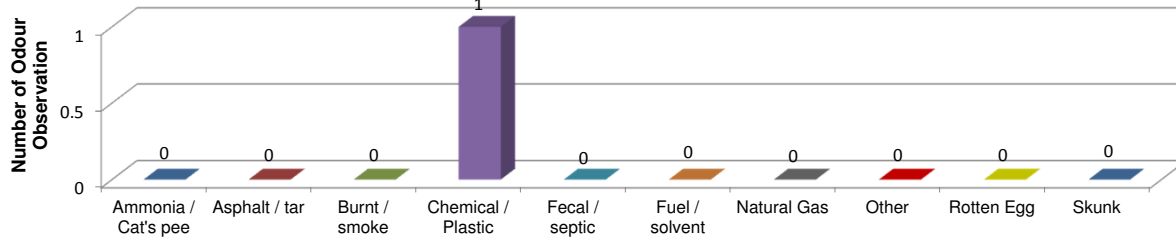
**Observation:** one type of odour with the conditions during which it was observed. If a report indicates 2 or more types of odours, each odour is counted as one observation.

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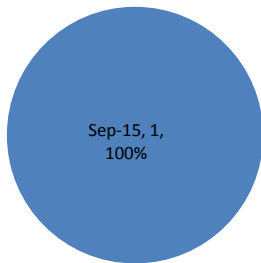


**Community Odour Observer Committee - Results (cont'd)**

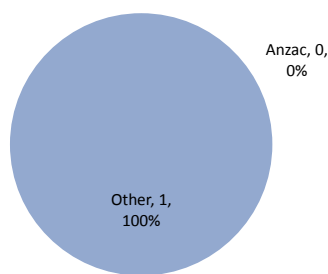
**Types of Odour Observations for September to November 2015**



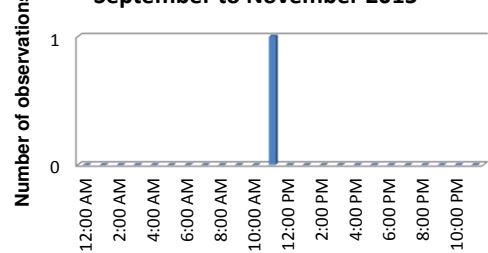
**Number of Observations per Month for September to November 2015**



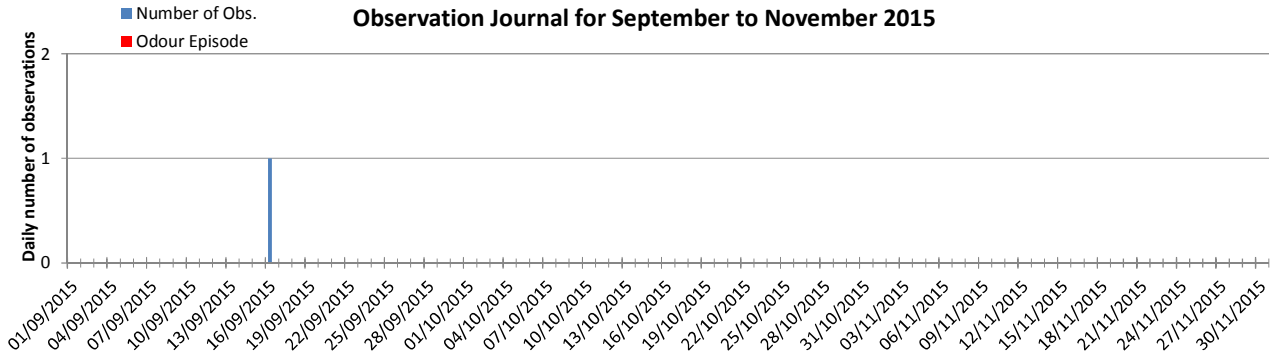
**Number of Observations per Project Area for September to November 2015**



**Observation per Hour of the Day for September to November 2015**



**Observation Journal for September to November 2015**



One report was received and analysed. The report listed one observation. The total number of observations analysed is 1. The observation was received in September (September 16th, 2015) through the mobile version of the website.

The odour perceived was attributed to Chemical/Plastic (1) and was reported in the vicinity of highway 881 and highway 63 (between Fort McMurray and Anzac).

Since odour observations are provided by volunteers during their day to day activities, observations are more likely to coincide with daytime and evening than nighttime and also reflect the time for which the volunteer remains at the location of the odour perceived. The observation was reported around 11 AM with a duration of 1 minute.

Odour episodes are considered to occur when 3 observations or more are received for the same day. The observation journal shows the number of observation received daily. No odour episodes were recorded for this period.