

Appendix A

Three Citizen Journals
And
Complaints of Odors, Health Effects and Noise

Journal of Bad "Ethanol air" Days,

as breathed at ~~██████████~~, three blocks west southwest from Gopher State Ethanol (882 W. 7th St.)

Since Gopher State Ethanol (GSE) began production in April, 2000, the air we breathe is always stale, but the days pinpointed in the following journal have been overwhelmingly bad. The burnt corn odors that disturbed half of St. Paul for thirteen months are diminished by GSE's thermal oxidizer; but the nearby noxious emissions and particulate, that are a health hazard to residents in a six to ten block radius of GSE, have continued unabated for 20 months.

In June 2000, fully a quarter of the 430 petition signers first described the now too familiar symptoms associated with those noxious emissions: Headaches, nausea, raspy throat, congestion, shortness of breath, dizziness, and others.* These symptoms have continued, unabated.

In her preliminary report, Dr. Susan Schiffman of Duke University Medical School stated that these symptoms were consistent with the reports had seen of GSE's emissions. We want Dr. Schiffman recalled to do her proposed health study. We have a right to know what we are facing, including aldehydes, which can endpoint in cancer. GSE has claimed again and again that there are no health risks.

The first duty of government is to protect the safety and health of citizens. GSE is a fuel refinery, set in dense, urban, residential neighborhoods, supported by vast public moneys - all to save 110 year-round jobs at a long failing brewery.

My wife and I have heard too many heartbreaking stories to count. We have witnessed as much bravery, and more stalwartness, among our neighbors as was seen at the Twin Towers or the Pentagon. We have also absorbed casualties, and the nightmare goes on and on, amid endless lies and false promises.

* This journal does not include GSE's noise violations, which bring loss of sleep and hearing damage.

P.S. - my urine has smelled pungently like the ethanol plant since June, 2000. Neighbors take vacations away and get better, when they return here, the symptoms return.

~~██████████~~
~~██████████~~
~~██████████~~
~~██████████~~
~~██████████~~

Aug. 12, 13, 14 ~~smell~~ characterizes a changed smell as rancid "potato chip factory".
13 rancid smell nights, very bad, coated mouth. 10:30 pm GSE plumes app.
14 rancidness, difficult breathing, bad gut, head ache as immune system reacts.

Aug. 19, 20, ~~bad~~ bad smell & breathing.

21, 22 rancid

23 lower wind from ~~east~~ south, higher wind from east, very bad, overcast.
24, 25 head ache, heavy throat + mouth coating, sour stomach, fume concentration

27 - night (a.m.) ^{morning} of migraine headaches, sour stomach aches. ... ~~smell~~

Ag. 31 - bad air
Sept. 1 headache, alcohol coated throat + mouth, short breath, wind ^{out of} WSW.

Sept. 2 - Ammonia release - 5:45 + 6:45 up sinuses, to frontal forehead headaches rancid incense

Sept. 13 - awful air p.m. sinuses immediate reaction.

Sept. 14 + 15 - awful air & stench, headache, coat throat + mouth. wind out of East

+16 - bad air

+17 - 11:15 am oxidizer fire

+18 - stench bad, brewery plus GSE.

Sept. 20 - ethanol air, retreat to the river.

Sept. 22 + 23 - nauseating stench, headache

Oct. 5 + 6 ethanol air, headaches

Oct. 7 + 8 ethanol air

Oct. 9 + 10 ethanol air ^{concentrates} & worse until winds blow strong

Oct. 18, Oct.

~~Oct. 20~~

Oct. 21 Sunday

~~Oct. 23~~

Oct. 24

Oct. 25 - ethanol concentration, headache, call from Becky Pierce.

almost
(~~1 2 wks in Nov.~~) } 2 weeks
Oct. 30 - Nov. 9 }
moderate ^{bad} ethanol smell

Nov. 23 bad ethanol smell (wind out of the East)

Nov. 24 " " "

Nov. 28 bad ethanol smell

Dec. 4 rancid, still air to wind out of east

Dec. 5 rancid

Dec. 7 ^{bad} still air, wind out of east.

Dec. 11 bad air, wind out of east.

Dec. 14 ethanol air, overcast

Dec. 15 ethanol air

Dec. 16 very bad build up overcast, headache, nausea, short breathing.

Dec. 17 continued ethanol fume build-up, breathless A.M.

Dec. 21 - wind from S.E. bad ethanol air.

5-14-2002 4 p.m. Horrid odor coming from the refinery, which caused instant headache and nausea. I couldn't mow lawn that night because of the stench. 8:30 and 9 p.m. foul, sickening smell from the refinery. Called MPCA duty officer.

5-19-2002 Emergency steam release from the facility, again. Called MPCA duty officer.

6-7-2001 4 p.m. stench from refinery caused the usual headache and nausea.

6-8-2002 4:48 a.m. to 5:10 a.m. emergency steam release woke me up, so I called the MPCA duty officer. Stench coming from the refinery throughout the day, too.

6-9-2002 stench come from the refinery throughout the day.

6-13-2002 8:40 p.m. emergency steam release.

6-15-2002 1 p.m. emergency steam release.

6-16-2002 9:40 a.m. emergency steam release.

6-17-2002 1 a.m. & 2:40 a.m. emergency steam release that sounded like fireworks exploding. 9:30 p.m. extremely foul odors that burned my lungs. At 4 and 7 p.m. foul, lung burning odors. Emissions were in my house and I had to leave and go to a friend's house to get away from this sickening stuff

6-19-2002 diagnosed with asthma. Asthma triggered when concentration of pollutants in air is high.

6-23-2002 5 p.m. refinery stench in my house again!

6-24-2002 5 p.m. foul refinery smell while mowing my lawn.

6-28-2002 9:20 p.m. walking home east on Palace avenues, extremely foul smell from the refinery by St. Frances de Sale church. Walked back to friend's house to ask here to witness/experience the intense emissions. We walked along W 7th street and found emissions coming from a vent street-level vent across from Hinding Heating. These intense, unfiltered pollutants triggered an asthma attack in me. Emissions were also blowing over my house, which is 1.5 blocks away from the refinery.

This refinery and all of its pollutants have destroyed the ability for me to enjoy my home and yard. I should not have to take time being sick from the refinery and making a record of its operation mishaps and sickening smells. This refinery has taken away my quality of life. This refinery must be moved out of the city to the country at least 5 miles away from people. I'm sure there is enough tax subsidy money for this to happen such that the refinery will still make money. The State of Minnesota and the EPA could then build and test a model ethanol fuel refinery, one that doesn't harm human health.

- 7-26-2001 Foul smell coming from refinery
- 8-1-2001 Smelled foul refinery odors at Caribou coffee on Grand Ave.
- 8-12-2001 Emergency steam release from refinery woke me up at 4:45 a.m.
- 9-2-2001 6:50 p.m. another emergency steam release. The fire trucks arrived to deal with another anhydrous ammonia leak
- 9-16-2001 Extremely foul, sickening smell all day. I was in the house studying. I had a severe headache and lots of nausea. Went to a friend's house in Minneapolis about 6 p.m. Within 20 minutes of arriving at the friend's house, my headache and nausea went away.
- 9-17-2001 Fire at refinery, again.
- 10-6-2001 black liquid oozing out of CO2 plant
- 10-12-2001 walking down St. Clair and Osceola very foul odors, which were more intense than in the past. Emissions created instant nausea.
- 10-19-2002 Walking down St. Clair, Oneida, Grace, and Toronto. Intense smell created instant nausea.
- 10-23-2001 Went to visit a friend on Bidwell and at 6:50 p.m. Odor from refinery very intense. This friend commented that she encounters this foul smell every day by the refinery as she drives her daughter to school via W 7th.
- 11-4-2001 Generally foul smell and also smell of sulfur. Sulfur smell started at 10 a.m. and lasted on and off until 3 p.m. I was raking the yard and had a bloody nose from Sunday night into Monday mid day.
- 11-7-2001 Foul smell at 4 p.m. when I arrived home from work. I've noticed there is often a release of foul smells from the refinery around 4 p.m. each day.
- 11-5-2001 Foul smell burning eyes and nausea walking east on W 7th to Chestnut street about 4 p.m. Encounter same smell & reaction on my return home about 5 p.m.
- 11-8-2001 Returned home for the day at 9:15 p.m. There was another emergency steam release, a high-pitched tea kettle noise, which lasted until 10:30 p.m. This noise kept me awake.
- 11-10-2001 10:15 p.m. walked out Palace Avenue door, moderately foul smell from refinery. I'm still experiencing gastro-intestinal distress, which began about a month ago.
- 11-11-2001 11:30 a.m. walking at corner of St. Clair and Osceola. I encountered a foul smell, which caused an instant headache and nausea.
- 11-21-2001 3:30 p.m. walking at the corner of Bay and Randolph I smelled acrid, pungent stench from the refinery, which caused instant headache and nausea.
- 11-24-2001 3:40 p.m. went to get in my car and the acrid, pungent smell from the refinery cause instant headache and nausea.

~~AS~~ A-4

When GSE first started operating in Spring 2000 there were many of complaints of odors and noise. Many of the complaints were not logged because citizens did not know what agency should receive the complaints. However, approximately 400 citizens filled a City Council Public Hearing meeting at Monroe Elementary in October 18, 2000 to complain to Council Members.

From September 2000 to December 2001, 36 Minnesota Duty Officer complaints of odors and health effects were received. GSE odor, alleged health effects, and noise complaints from June 2002 (approximate time the TO stopped working) to March 26, 2003 (265 total) reported to the Minnesota Duty Officer:

Month year/ complaint numbers

June 02 / 6

July 02 / 55

Aug 02 / 31

Sep 02 / 30

Oct 02 / 19

Nov 02 / 19

Dec 02 / 18

Jan 03 / 21

Feb 03 / 32

March 1-26, 2003 / 34

Complaints sent to the City of St. Paul for June 20, 2002 - August 9, 2002 totaled 125.

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From September 2000 to December 2001, 36 Minnesota Duty Officer complaints of odors and health effects were received. GSE odor, alleged health effects, and noise complaints from June 2002 (approximate month the TO stopped working) to August 4, 2003 (408 total) reported to the Minnesota Duty Officer :

Month year / complaint numbers

June 02 / 6

July 02 / 55

Aug 02 / 31

Sep 02 / 30

Oct 02 / 19

Nov 02 / 19

Dec 02 / 18

Jan 03 / 21

Feb 03 / 32

March 03 / 49

April 03 / 44

May 03 / 25

June 03 / 8

July 03 / 46

August 1- 4, 2003 / 5

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