Planning & Development Services

City of Aurora

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Planning Division 15151 E. Alameda Parkway, Ste. 2300 Aurora, Colorado 80012 303.739.7250

September 4, 2015

Maxwell Blair Conoco Phillips Company 34501 E. Quincy Ave. Bldg. 1 Watkins, CO 80137

 Re:
 Initial Submission Review – Grande 4-65-20-19 1DH 1CH 1BH 1AH

 Oil and Gas Well Permit CSP
 Application Number:

 DA-2010-00
 Case Number:

 2015-6031-00

Dear Mr. Blair:

Thank you for your initial submission, which we started to process on Monday, August 10, 2015. We reviewed it and attached our comments along with this cover letter. The first section of our review highlights our major comments. The following sections contain more specific comments, including those received from other city departments and community members.

Since several important issues still remain, you will need to make another submission. Please revise your previous work and send us a new submission on or before Friday, September 18, 2015. Your administrative decision date is still tentatively set for Wednesday, November 4, 2015. Based on the resubmittal, staff will determine the administrative approval date for the application.

Note that all our comments are numbered. When you resubmit, include a cover letter specifically responding to each item marked with an asterisk. The Planning Department reserves the right to reject any resubmissions that fail to address these items. If you have made any other changes to your documents other than those requested, be sure to also specifically list them in your letter.

As always, if you have any comments or concerns, please give me a call. I may be reached at 303-739-7186.

Sincerely,

Stephen Radriguez

Stephen Rodriguez, Senior Planner City of Aurora Planning Department

cc: Mindy Parnes, Planning Department Melinda Lundquist, CVL Consultants of Colorado Inc, 10333 E. Dry Creek Rd., Ste. # 240, Englewood CO 80112 Margee Cannon, Neighborhood Liaison Mark Geyer, ODA Filed: K:\\$DA\2010-00rev1.rtf



# Initial Submission Review

## SUMMARY OF KEY COMMENTS FROM ALL DEPARTMENTS

- See the comments from ACJ Partnership, surface owners of the property. They object to the application and request further discussions with Conoco Phillips on the proposal.
- See the extensive number of comments from interested citizens regarding the proposal and address their concerns specifically as they *relate* to the project. Staff recommends having a neighborhood meeting to address their concerns.
- Provide documentation of authorization from the surface use owner for the development application.
- A finalized Road Maintenance Agreement is required for the project prior to recording of the permit (CSP).
- See Public Works (Engineering) comments regarding the right-of-way for Mississippi Avenue and the roadway agreement.
- Continue to work with Parks regarding the Triple Creek Greenway Corridor Study, impacts to wildlife and natural features, and consistency with the Eastern Hills Framework Development Plan for Open Space.
- See the Life Safety comment redlines made on pages 12 and 64 of the supplemental information.
- See the Real Property comment regarding easements and License Agreements.
- See the comment redlines from Aurora Water relating to the SWMP plans and slope requirements.
- Upon completion by CDPHE, provide staff the results of the water quality testing to staff.
- See the comments from Xcel Energy for coordination regarding gas and electric service.
- See the memo from Tri-County Health Department with their comments and concerns.

## PLANNING DEPARTMENT COMMENTS

#### 1. Community Questions Comments and Concerns

1A. Comments were received from the Alpert Group, the land owner, where these wells "Grande 4-65 20-19 1DH 1CH 1NH 1AH" are proposed to be drilled. See the following comments and address them in your resubmittal: "We would like to object to the application for a few reasons. We feel since this well site is one of many we need to negotiate with Conoco Phillips, we would like to have a better agreement with Conoco Phillips as to the location and extent of all the potential sites on our property before we agree to each well application individually. Also, this site is larger than what we have recently been told it would be."

"Given the possibility that the ultimate layout of the wells and the actual number of well sites is still being negotiated, the City of Aurora should defer approval of the COP drilling permit until this is further fleshed out. By furthering discussions with Conoco Phillips, and possibly consolidating more wells per site, we could accomplish a few goals listed below which could benefit the City, the land owner as well as Conoco Phillips.

- 1) Significantly reduced impact to the surface lands with reduced truck traffic
- 2) Greater usage of the surface for residential / commercial purposes

3) Reduced long term impact on the neighborhood's residences once oil production begins, i.e. greater distance from noise generating activities

4) More efficient usage of COP's resources, i.e. reduced Capital and Operating expenses."

1B. A significant amount of additional comments were received from interested citizens expressing their opinions regarding the application, and are overwhelmingly in opposition to the project. See the attached correspondences for details, and respond to the *major* comments and concerns expressed in regard to the proposal. Staff recommends convening a neighborhood meeting with interested neighbors to discuss the project and address their specific concerns with an opportunity for the residents to ask specific questions. Please coordinate with our Neighborhood Services Division representative, Margee Cannon, for assistance.



## 2. Completeness and Clarity of the Application

2A. Please provide documentation of authorization from the surface use owner regarding the development application with the City. The surface owner of this property has expressed objection to the project. See above for details.2B. Please provide the *mineral lease* or *leases* associated with this multi-well pad site. Upload the documents as part of your resubmittal.

2C. As indicated previously, a Road Maintenance Agreement between Conoco Phillips Company and the City of Aurora for potential road impacts to Powhaton Road is required. The agreement must be completed prior to recording of the Oil and Gas Permit. Please verify the status of this agreement.

2D. Show the ultimate number of tanks on the site when the site operates at maximum capacity.

## 3. Zoning and Land Use Comments

3A. Staff has concerns regarding the haul route identified for the multi-well pad. While it is apparent that this is the most direct haul route to the proposed site, staff has concerns with the truck traffic along Powhaton Road which is directly adjacent to the Adonea residential development. While County roads would be used with the Watkins Road to Jewell Avenue and to Powhaton Road alternative, City roads would also be used for the haul route, sharing the burden for access to the site. Staff considers this to be a viable option for this site. Please modify your plans accordingly.

3B. The multi-well pad complies with city code regarding the setbacks from existing or planned right-of-way for Powhaton Road. Please clarify the final condition after drilling and what encroachments will remain on a permanent basis.

3C. Continue to work with Parks on the well pad as it relates to the Triple Creek Greenway Corridor, wildlife survey results, impacts to natural features, the view corridor, and drainage impacts that may affect the existing drainage patterns. Look at shifting the well pad footprint to avoid the Open Space area shown in the Eastern Hills Framework Development Plan. As presented, ultimately, an amendment to the Eastern Hills FDP will be required.

#### 4. Waivers Requested or Required

4A. No waivers are requested with this application.

#### 5. Signage Issues

5A. Signs 3-6 square feet in size with operator information and safety hazard warnings are required to be posted on the site. Please identify on the CSP where the signs will be located.

#### 6. Environmental Issues

6A. Baseline Water Quality testing – When the Colorado Department of Public Health and Environment (CDPHE) completes their analysis of water quality testing of wells within a half-mile radius of the proposed facility, provide the results to staff.

## REFERRAL COMMENTS FROM OTHER DEPARTMENTS AND AGENCIES

#### 7. Civil Engineering (Rick Hunter 303-739-7307 rhunter@auroragov.org)

7A. See the comment redlines regarding the need to show the Mississippi Avenue right-of-way.

7B. The roadway agreement must be approved prior to recording of the Oil and Gas Permit.

#### 8. Parks (Chris Ricciardiello 303.739.7154 CRicciar@auroragov.org)

8A. The PROS Department issued a series of comments relating to the pre-application submittal for the Grande Oil/Gas Well. While the applicant responded to some comments, not all were addressed. The applicant must provide additional information relating to the following areas of concern:



## **Current FDP:**

The provided plan indicates that the corner of the well site is located within an area designated as OS-2 (Open Space) in the Eastern Hills Framework Development Plan. This area contains a proposed regional trail on the south side of the creek and a proposed local trail on the north side. Within the Triple Creek Greenway Corridor Study, this boundary also serves as the limits of the Triple Creek Greenway which contains a 17-mile long regional trail connecting the Sand Creek Greenway Trail to the Aurora Reservoir. This boundary was established based on the significant natural features (deeply incised drainage ways with steep slopes) within the Coal Creek corridor and based on a view boundary created by a natural ridge and high point. The proposed well site should be compatible with the approved framework development plan for the subject property.

#### Impact to Wildlife:

Wildlife within the Coal Creek floodplain and within the Triple Creek Greenway Corridor could be impacted by the construction and operation of the proposed well site. A wildlife survey conducted as part of the Triple Creek Greenway Corridor Study identified important habitat for the Northern Leopard Frog. These areas are located along the creek, both upstream and downstream of the proposed well site and could potentially be adversely affected by changes in water quality resulting from well site construction and operation.

## **Impact to Natural Features:**

Between the proposed well site and Coal Creek, there are several deep drainage ways that are unique to the metropolitan area. These natural features could be impacted by construction activities and resulting altered drainage patterns. The runoff from the well site should be dispersed in a manner similar to the existing drainage patterns to reduce the potential for damage to the natural features. The design of detention and water quality facilities should be designed with this concern in mind.

#### **Stockpiles:**

The proposed stockpiles will not result in a desirable feature adjacent to the natural landscape of the creek corridor. Grading the piles to look more natural, as achieved on the nearby Xcel substation site, would enhance the area and improve views of the well site. In addition, the topsoil should be spread over the other soil to have greater success with revegetation. The topsoil will lose its natural biological qualities (which make it more suitable for seeding/germination) if stockpiled to a depth of more than 2 feet.

#### 9. Life Safety (Neil Wiegert / 303.739.7613 NWiegert@auroragov.org)

9A. Please refer to comment redlines made on pages 12 and 64 of the supplemental information packet.

#### 10. Real Property (Darren Akrie / 303.739.7331 DAKRIE@auroragov.org)

10A. If there are easements or a License Agreement required for encroachment into city right-of way, coordinate with the Real Property Division.

#### **11. Utilities Department** (Jon Villines / 303.739.7646 JVILLINE@auroragov.org)

11A. Please see the comment redlines relating to the SWMP plans and slope requirements.



## 12. Xcel Energy

12A. Public Service Company of Colorado's (PSCo) Right of Way & Permits Department has reviewed the plans for the above captioned project and has **no apparent conflict**.

The property owner/developer/contractor must contact the **Builder's Call Line at 1-800-628-2121** and complete the application process for any new gas or electric service. It is then the responsibility of the developer to contact the Designer assigned to the project for approval of design details. Additional easements may need to be acquired by separate document for new facilities.

As a safety precaution, PSCo would like to remind the developer to call the **Utility Notification Center at 1-800-922-1987** to have all utilities located prior to any construction.

If you have any questions about this referral response, please contact me, Donna George at (303) 571-3306.

#### **13.Tri-County Health Department**

13A. See the attachment regarding Baseline Water Quality Testing, Emergency Response, Air Quality, and Traffic Safety and various other issues.

From:	Sonia-Skakich Scrima <joejederman@msn.com></joejederman@msn.com>
Sent:	Monday, August 31, 2015 4:48 PM
To:	Rodriguez, Stephen E
Cc:	Molly Markert
Subject:	RE 4 well pad Grande oil and gas application; comments not accepted on planning page

I am submitting these comments directly to Stephen Rodriguez in Planning, and other concerned parties, since the comments page for the Planning Application would not accept comments over 2000 characters.

## Comments regarding Conoco Phillips application for 4 well pad: Grande 4-65 20-19

# Per Aurora's city ordinances regarding oil and gas development, per state regulations, and per the city's local land use rights, the city can request the following and should in due diligence do so:

1) Request that the wellpad be located within the 15 acres owned by CP at the location maximally distant from any Aurora community, while still meeting other state requirements (e.g. distance from Coal Creek).

2) Traffic:

A. Request the use of Watkins Road rather than the more locally used Powhatan Rd, in order to reduce local traffic impact and traffic hazards, as well as diesel exhaust, to nearby residents. This impact will be particularly intensive during the 4 months of 24/7 operations described in the application.

B. Request that water be piped in rather than trucked in for this application, to reduce truck traffic impact, truck traffic hazards, and diesel exhaust, to nearby residents.

3) Request that the data regarding the anticipated Hazardous Air Pollution impact of this project be submitted to the city <u>prior</u> to review completion (i.e., aggregate anticipated HAP lbs/tons per year, and specific breakdown of benzene, VOCs, etc). This data is being prepared already, to be submitted to the CDPHE in order to obtain a CDPHE air permit APEN prior to drilling. The city's planning department, elected officials, and residents should be aware of anticipated toxic air pollution impacts of this project. While this information is relevant to all residents of Aurora, since we all breathe, and since wind blows, it will be particularly relevant to the most vulnerable populations of Aurora: pregnant women, infants, elderly, the already health compromised, and those who have existing respiratory problems.

# Per city obligations to uphold assets of the city and its residents, including property values, health, and public safety, the city should additionally:

4. Request that the operator install at the site: emissions monitoring equipment, to specifically measure VOCs and benzene, and hydrogen sulfide emissions in real time, with date, wind direction and velocity and temperature, for remote transmission to be posted to a website where any member of the public can verify some of the most critical hazardous air pollutants in real time. Multiple studies have affirmed the deleterious health impacts of such toxins, related to exposure distances exceeding 1 mile, dependent upon dose, duration, and frequency. The monitoring station should also include a unique sounding alarm, audible to surrounding communities, to advise them of incidents where emissions levels have been exceeded and are dangerous, as well as to advise of fires, explosions, spills or other incidents which could affect the safety and health of nearby residents. This should be the case for all oil and gas facilities in Aurora. It is technically feasible and should be readily accepted by an industry whose PR and community outreach most prominently features the claim of "clean and safe".

## FIRST REVIEW COMMENTS ON DA-2010-00 – GRANDE 4-65 20-19 1DH 1CH 1BH 1AH Oil & Gas Well Permit FROM MCGC NEIGHBORS AUGUST 31, 2015

MCGC Neighbors is a registered Neighborhood Group in Aurora for neighborhoods along the E-470 corridor. Our first review comments are listed below and follow the numbering scheme of the document on the city's website entitled, "Grande Response to Pre-App Notes".

## **1. Zoning and Land Use Issues**

1B. <u>City's Comments</u>: To access the multi-well pad, the proposed haul route identifies Powhaton Road by way of the CDOT frontage road along I-70 as the main route to access the site. Staff is concerned that this route with its proximity to Adonea Subdivision on their eastern boundary, could negatively impact the surrounding neighbors with the increase in truck traffic. To avoid this problem, please explore the option of using the Watkins Road to Jewell Avenue and then west to Powhaton Road haul route alternative, as was used for the Cottonwood Creek and Sunset Grimm Well sites.

<u>CVL's Response</u>: The access route along Powhaton is the most direct alignment to the location. Arapahoe County has voiced concern regarding using their roadways to avoid City roadways.

<u>MCGC Neighbors' Comments</u>: Since the general public is not privy to any meetings or discussions, it is difficult to ascertain the real meaning of this response. Since Arapahoe County has voiced concern, does that mean Powhaton will be used for the haul route, or does it mean that something will be worked out with Arapahoe County so that Watkins Road will continue to be used? This answer is important to the surrounding communities.

1C. <u>City's Comments</u>: A road repair agreement will be required as part of the permit application and will be required to be fully executed prior to recordation of the oil and gas permit.

#### CVL's Response: Acknowledged

<u>MCGC Neighbors' Comments</u>: Since the general public typically doesn't have intimate knowledge of how development applications work, it is difficult to ascertain the real meaning of this response. Does this mean that a road repair agreement will be executed with Arapahoe County in order to continue using Watkins Road, or does it mean that a road repair agreement will be executed with the City of Aurora in order to use Powhaton? This answer is important to the surrounding communities. If a road repair agreement will be executed with Arapahoe County, will the haul route be Watkins Road?

#### 2. Traffic and Street Layout Issues

2A. <u>City's Comments</u>: Pending neighborhood comments, a Traffic Impact Study is not required at this time with the application submittal.

#### CVL's Response: Acknowledged

<u>MCGC Neighbors' Comments</u>: MCGC Neighbors is requesting a Traffic Impact Study. This issue is important to the surrounding communities, as there are many concerns about the increase in traffic from this project.

#### **3. Environmental Issues**

3A. <u>City's Comments</u>: The proposed site is located in proximity to a wildlife habitat and the planned Triple Creek Trail Corridor. Staff and Parks have concerns regarding the sensitive wildlife species and habitat, and how the proposal would impact the aforementioned. The Sensitive Species Analysis states that you will undertake all appropriate sensitive species surveys if the operation disturbs the existing sensitive wildlife habitat. Parks has also requested a *migratory bird study* to help in analysis of the proposed site. Staff is in the process of examining the information provided by Conoco Phillips to determine what modifications need to be made to the Grande site. Results of our analysis will be forwarded to Conoco Phillips.

<u>CVL's Response</u>: As discussed in the meeting on 7-28-15 with the City, COP and CVL, an environmental report was supplied to the City. There are no existing nests closer than a ½ mile of the site. Another evaluation will be conducted by COP days prior to pad construction. The results of which will be submitted to the City if acceptable to the landowner.

<u>MCGC Neighbors' Comments</u>: Since the general public was not privy to the meeting on 7-28-15, it is difficult to understand why the results will only be submitted to the city if acceptable to the landowner. This answer is important to the surrounding communities.

#### 5. Landscape Design Issues

5A. <u>City's Comments</u>: Landscaping is *not* required with this multi-well pad site although the PROS (Parks) department is concerned about the visibility of the site from their planned Triple Creek corridor. <u>CVL's Response</u>: Acknowledged.

<u>MCGC Neighbors' Comments</u>: Since the general public is not privy to any meetings or discussions, it is difficult to ascertain the real meaning of this response. Does it mean that some landscaping will be provided to address the PROS concern, or does it mean that the concern was heard and ignored?

#### Parks, Recreation & Open Space Department (PROS)

There are many sections listed under this topic, but there is only one response from the applicant.

<u>Consultation with PROS: City's Comments</u>: Following review of these comments and prior to development application submittal, the applicant should meet with the PROS Department to discuss mitigation measures and plan adjustments which will address the issues presented.

<u>CVL's Response</u>: As discussed in the meeting on 7-28-15 with the City, COP and CVL, an environmental report was supplied to the City. There are no existing nests closer than a ½ mile of the site. Another evaluation will be conducted by COP days prior to pad construction. The results of which will be submitted to the City if acceptable to the landowner. The Site Plan is being submitted as originally designed, as agreed to in the July 28th meeting. We will address the review comments, including the potential distribution of topsoil, additional water quality ponds, etc., after the formal review.

<u>MCGC Neighbors' Comments</u>: Since the general public was not privy to the meeting on 7-28-15, it is difficult to understand this response. Does it only pertain to the Consultation with PROS section, or does it address the other sections as well? If it doesn't address the other sections, where are the responses for those sections? What was agreed to in the meeting? If the Site Plan is being submitted as originally designed, how were PROS concerns about the location of the well site addressed?

#### Public Works Department

#### Traffic Division

<u>City's Comments</u>: A roadway Maintenance agreement will be required prior to approval of Site Plan. It shall cover all City roadways designated to be within the Haul Route.

CVL's Response: Acknowledged.

MCGC Neighbors' Comments: Please see our response to item 1C.

<u>City's Comments</u>: Show the installation of new stop signs by developer at the site access points onto public streets. Signs shall be furnished and installed per the Manual on Uniform Traffic Control Devices (MUTCD).

<u>CVL's Response</u>: Stop signs are not typically required at driveway entrances. They have not been installed on previous well locations.

<u>MCGC Neighbors' Comments</u>: Since the general public typically doesn't have intimate knowledge of how development applications work, it is difficult to ascertain the real meaning of this response. Does this mean that the city's request to install stop signs is being ignored? If stop signs weren't installed on previous well locations, maybe that is a problem that should be remedied, beginning with this well location.

<u>City's Comments</u>: Pending something unforeseen, such as public comment, the Traffic Division will not require a Traffic Study at this time.

CVL's Response: Acknowledged.

MCGC Neighbors' Comments: Please see our response to Item 2A.

#### Engineering Division

<u>City's Comments</u>: A drainage letter may be submitted in lieu of a preliminary drainage study. It will need to be signed and stamped by a Professional Engineer licensed in the State of Colorado. The letter shall be submitted to Engineering at the time of the Planning Department application submittal. A review fee shall be paid to Engineering prior to acceptance of the letter.

CVL's Response: Acknowledged.

<u>MCGC Neighbors' Comments</u>: It is difficult to ascertain the real meaning of this response. Does this mean that a drainage letter signed and stamped by a Professional Engineer licensed in the State of Colorado has been submitted? If so, in what document is it contained? We have searched the city's website and don't see it. If the required letter has not been submitted, when will it be submitted?

#### MCGC Neighbors' General Comments Regarding the Phased Nature of the Project:

Our understanding of a phased approach to this project is that one well will be completed before the next well is begun. If this is the case, we are concerned that the negative impacts to the surrounding communities will be prolonged. In order to mitigate our concerns, it would be very helpful and neighborly to explain the reasons for the phased approach. We have some ideas, but due to our limited knowledge in this area, we wouldn't want to speculate.

#### We thank you for the opportunity to comment.

Lucas Stephens: I'm concerned about the proximity to the creek and its habitat. This property is on a hill which then slopes off into the connecting creek. If an accident were to take place then the creek and the surrounding environment would be affected. Also, I have not seen it stated the actual route the trucks will take. It seems as though the most direct route would be from I70 down Powhaton, but this is only a proposal. How many trucks per day would this increase? Will there be extra shoulder room added to the existing road? I ride my bicycle down this road and it is already narrow. Adding semi-trucks would make it an even more dangerous road.

Kim Foster: Several things concern me. Once again, CVL and ConocoPhillips have left the Adonea and Traditions subdivisions off their site plan maps but have included Murphy Creek and Cross Creek, both of which are further away from the drilling site.

The fact that ConocoPhillips wants to erect FOUR towers is disturbing. As they will be done successively and not concurrently means a minimum of FOUR MONTHS of disruption rather than one month. Also, assuming they will be approved for 24/7 operation, this is an absolutely unacceptable amount of night time disruption to those of us living in the area most impacted by this operation. The lights from previous operations they had going nearby could be seen for miles and this will be right next door. And if all of their proposed operations become operational, this will be one of at least FOUR nearby sites that will greatly impact the neighborhood's quality of life.

The proposal also mentions that natural gas will either utilize a pipeline or be combusted or flared. Which will it be? When do they decide? A pipeline would not be disturbing. Flaring is absolutely obnoxious and goes back again to quality of life as these flames are very bright and can be seen for miles. It will be totally disturbing to those of us that can see it from our windows.

I also have a safety concern with the trucks traveling on Powhaton Road. This is a very hilly road with limited sight distance. The speed limit is 45mph but few actually go that. The trucks will be slow moving and pulling out in front of cars they can't see going pretty fast. Will there be some kind of warning signage to mitigate the situation and potential disaster? Maybe something similar to the wildlife signs posted on the south end of Powhaton.

Please be considerate and thoughtful in your approach to this operation as it is only one of several ConocoPhillips is proposing in the area. A single drilling site would not have the same impact as this will have in conjunction with their others and all will greatly and adversely affect the residents of the nearby neighborhoods.

Antonia Ingersoll: As a resident in the nearby Adonea subdivision, I have to say that I am not at all in support of any sort of drilling or fracking that might be going on anywhere near my neighborhood. The possible medical concerns with this sort of pollution is not even the biggest reason I am against it. I have an Autistic child with severe sound sensory issue. The sounds caused by all of the construction alone would be a problem for my son. We have a right to reside in the homes that we purchased, peaceably and free from noise and or pollution. I urge you to reject these permits.

Name: John F. Dougherty, P.E., Ing, STS: Since this wellpad is proposed eventually to encompass FOUR wells, a comprehensive plot showing how all 4 will be situated, along with their tanks and equipment, so that the initial plan may be judged as not to set in pace something that will require inordinate rework to accomodate 4 wells. The use of Powhatan Rd should not be allowed, as this breaks a long-standing policy of using Watkins Rd. and the main access into the oilfield. August 31, 2015

Steve Rodriguez City of Aurora Planning

## RE: Comment on Conoco Phillips Oil & Gas Multi-Well Pad & Fracking Application

Dear Mr. Rodriguez:

We have just returned from a long trip to New Mexico. As it is still August 31, 2015, the deadline date for comment, we request you honor the date of our submission.

We have been notified that Conoco Phillips has submitted an application to construct a multiwell/fracking pad site within one mile of Murphy Creek and Adonea between the Mississippi alignment and Powhatan Rd. Our home is located in Thunderbird Estates, and we have some very serious concerns about the impacts from this proposed operation:

Twice in the month of June, 2015, both of us felt our home move as though we had experienced a slight earth quake. Our neighbor contacted us to say that the pictures and mirrors hanging on her walls in her basement had moved and now hung crooked. All of these incidents happened during the drilling/fracking operations at the site located on the Old Aurora Airport Road.

Our water supplies come from an adjudicated aquifer water supply. We are worried that when these quake-like incidents do happen, it might impact the piping in our well casing.

Studies done at the Lowry Landfill Superfund Site located at the corner of Quincy and Gun Club Road have shown that there are multiple sand lenses, fractures and even a growth fault. We are sure that the geology/hydrogeology where we reside cannot be that much different from the Lowry Site. We are very concerned that the drilling/fracking activities will cause these fractures/sand lenses to move and open new pathways for contaminants to get in to the aquifers we all use for domestic needs. This is an especially serious concern for those of us who use aquifer water considering that the University of Colorado at Boulder has used a new framework to screen hundreds of organic chemical compounds used in hydraulic fracturing, or fracking, which have shown that 15 compounds, based on their toxicity, mobility, persistence and frequency of use, could contaminate groundwater. The team predicted that 41 of 659 organic compounds screened would have 10 percent or more of their initial concentrations remaining at a transport distance of roughly 300 feet.

It is a known fact that there is the chemical 1,4-dioxane (and TCE is suspected) currently flowing north from the Lowry Landfill Superfund Site in the groundwater and in to our neighborhoods. Latest indications are that the plume is all the way to Mississippi. Studies are being conducted to verify if the chemicals may be as far away as Coal Creek/Sand Creek. Will these fracking operations add more chemicals to flow in to the groundwater, adding to the Lowry Site chemicals? Will the Fracking operations cause new pathways for the Lowry Chemicals to

From:	Sally Archer <sallyjoarcher@gmail.com></sallyjoarcher@gmail.com>
Sent:	Friday, August 28, 2015 3:25 PM
То:	Rodriguez, Stephen E
Subject:	Conoco Phillips Fracking plan Between Mississippi Alignment and Powhatan Rd.

To Whom it may concern,

I am an Aurora resident, very concerned with all of the residential Fracking popping up in our neighborhoods. No notifications, No voting, No warning at all, and suddenly flames are shooting up all over the place. I find it very sneaky, and under handed that the Aurora Government is allowing Big Oil companies to come into our neighborhoods without due process for the citizens that live there. Please do not approve the Conoco Phillips request for the new Fracking sight. Please allow Aurora citizens to vote as we are the land owners and tax payers.

Sincerely Sally Archer

From: Sent: To: Subject: Chris and Steph <csshells@yahoo.com> Friday, August 28, 2015 3:00 PM Rodriguez, Stephen E ConocoPhillips application for tracking

To whom it may concern,

My name is Chris Shellenberger a resident of Murphy creek. I've just learned about ConocoPhillips application for fracking a mile from the community in which I live. This is very troubling and I hope this will be declined. Our property values, safety, and quality of community are in jeopardy. The large corporation needs to go find an area that they can use that won't affect an already nice established community. This would totally devalue an entire community affecting thousands of people's lives. The lives of the people in this community are far more important that this companies ability to make more money. This application needs to be rejected immediately.

-Chris Shellenberger Murphy creek resident.

Sent from my iPhone

From: Sent: To: Subject: T Cox <psalm139family@gmail.com> Friday, August 28, 2015 2:50 PM Rodriguez, Stephen E Fracking - Formal Complaint and Concerns Adonea / Murphy Creek

Dear Aurora,

I just learned that Conoco Phillips submitted an oil and gas multi-well pad application between Mississippi Alignment and Powhatan. While you only sent notification to those within ¼ of a mile, fracking sites affect people within a 1 mile radius, and even further. I do not appreciate that Aurora or Conoco Phillips have kept this all quiet and under wraps only notifying the select few. It is truly sad that so many people that live in this city will not know until it is too late because you are hiding the information.

My comments to that are: No wells should be placed near residences and it certainly is not just <sup>1</sup>/<sub>4</sub> mile zone of those affected. The following items are my areas of concern for our COMMUNITY!

- Air quality Colorado's air quality has become poor and I have no doubt this is due to all the fracking going on in Colorado with limited restrictions and regulations put upon companies. When the air quality plane flies over, fracking mysteriously subsides to make it look okay. This air that you are now planning on affecting is not within a <sup>1</sup>/<sub>4</sub> mile radius. This is the air that all of us breathe in neighboring communities. Air that newborns and children are breathing. There are schools within that so called radius. What happened to the clear blue skies and good air to breathe? Are we all supposed to remain inside our homes, windows and doors shut, air running with a filter 24-7 and wear a mask when tending to the yards or play with children?
- 2) Water table There is a major water table / aquifer in our area. So you are now planning on contaminating the creeks in the area by air pollution and also that that is under the ground. Our drinking water!
- 3) Land Value and Quality You are devaluing our homes and putting our lives in jeopardy by placing such wells in our backyards. The noise, the bright lights, the increased heavy machinery traffic, the towers...all things that come to the neighborhood and devalue our property. You are allowing them to drill under our home for miles and leave contaminants in the ground. Drilling has led to earthquakes in some areas or explosions! Call it what you will, but those things exist. It is too early for you all to be able to determine the long term effects of placing the remnants in the ground in sealed containers. They will eventually leak. Where will those go...into the water! Our drinking water! The animals that surround our neighborhood....their drinking water.

 From:
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 Sent:
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 To:
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 Subject:
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catherine ireland <gkatie2002@mac.com> Friday, August 28, 2015 2:29 PM Rodriguez, Stephen E ConocoPhilips MultiWellPad Application

I am a resident of Traditions, a new resident. We discovered 2 days after closing that almost all of the land around us had been leased to ConocoPhillips. We were told by our builder and our Realtor that all Denver/Aurora development was being pushed east...that we were moving into a huge growth area. Within the week of moving here we discovered otherwise. That this is never never land and that it's future is industrial and not residential. This is non-sense. We were just informed of the Multi Well Pad Application located near Adonea/Murphy Creek. Please, I beg of all of you to think of the consequences of approving this. Not only will it affect the water for Aurora, not only will it affect the citizen's health around this area (to include 2 schools), but there is no infrastructure in place to support the amount of traffic that will be in and out of there. We are not never never land for the City of Aurora or the State of Colorado. We are families...many are military...we are taxpayers that are saying no. No to this application. No. Catherine Ireland

433 N Jamestown Way Aurora CO 80018

From: Sent: To: Subject: Stephanie Email <snshell1215@gmail.com> Friday, August 28, 2015 2:27 PM Rodriguez, Stephen E Fracking near Murphy Creek

Hello,

My name is Stephanie Shellenberger and I just heard that they are planning on adding a fracking site a mile from the Murphy Creek neighborhood. Please do not allow them to put this up near our neighborhood. This is going to lower our property values and make poor air quality for our neighborhood.

Sincerely,

A concerned homeowner Stephanie Shellenberger 719-425-0444

Sent from my iPhone

From: Sent: To: Subject: Nicole Tolin <nicole.tolin@gmail.com> Friday, August 28, 2015 3:27 PM Rodriguez, Stephen E Conoco/Phillips multi well pad application

Hello,

I was told to contact you regarding the Conoco/Phillips multi well pad application that has been received. The area I'm concerned about is near the Adonea and Murphy Creek area in Aurora. I live in the Traditions neighborhood which backs up to Adonea. I am very disturbed to know that the possibility of fracking happening this close to my neighborhood is happening. I would like to lodge a complaint against this application and request a denial for it. Whether fracking is safe or not, it brings the property value down for homes near these sites as well as can cause air pollution. I know that the last week we've had smoke pollution over much of Colorado and it's been very difficult taking my asthmatic son anywhere to play outside. I don't want this to be a permanent thing while they are fracking. Please, I am begging you, stop this application from being approved.

Thanks for your time,

Nicole Tolin 520 N Ider Way Aurora, CO 80018

From: Sent: To: Subject: Crystal Cobb <crystalcobb2012@gmail.com> Friday, August 28, 2015 4:46 PM Rodriguez, Stephen E Wells being put in by Conoco in east Aurora

Hello,

I hope this email doesn't find you in error, but I want to register my opposition to Conoco Phillips being able to build a well operation in east Aurora. We are buying a house in the Traditions neighborhood, and the additional heavy truck traffic will reduce property values, as well as create more pollution and dangerous conditions.

Aurora should be against this - if property values plummet on the east side, where there is the most room for expansion for Aurora, property tax revenues will drop and the city of Aurora will suffer.

Please don't let Conoco drill in east Aurora! Thank you.

Crystal Cobb

From: Sent: To: Subject: Elias Cobb <eliascobb@gmail.com> Friday, August 28, 2015 4:43 PM Rodriguez, Stephen E Conoco Phillips east Aurora wells

Hello,

I hope this email doesn't find you in error, but I want to register my opposition to Conoco Phillips being able to build a well operation in east Aurora. We are buying a house in the Traditions neighborhood, and the additional heavy truck traffic will reduce property values, as well as create more pollution and dangerous conditions.

Aurora should be against this - if property values plummet on the east side, where there is the most room for expansion for Aurora, property tax revenues will drop and the city of Aurora will suffer.

Please don't let Conoco drill in east Aurora! Thank you.

Elias Cobb

From: Sent: To: Subject: Kendrea Edwards <kendrea.edwards@gmail.com> Friday, August 28, 2015 4:36 PM Rodriguez, Stephen E No Fracking!

As a resident of east Aurora, I want to voice my opposition to drilling or fracking anywhere near my home. Allowing private companies to destroy our air and water for their own benefit is an atrocity! I do not want my home value driven down by a private corporation's careless destruction of our local environment! Please stand with me and my fellow homeowners in opposition to fracking and drilling.

Regards, Kendrea Edwards

From:	Darrell Eurich <darrell.eurich@gmail.com></darrell.eurich@gmail.com>
Sent:	Friday, August 28, 2015 4:32 PM
То:	Rodriguez, Stephen E
Subject:	Opposing the multi well pad for multi drilling and fracking between Murphy Creek and Adonea neighborhoods

I oppose this filing and any other filing for permits in Aurora until more studies are done and a committee is formed with representation from Home Owners and planners have input on all applications for permits. Things to consider include but are not limited to:

Affect wildlife and the Triple Creek Greenway Corridor (the creek right off Powatan Road) Truck traffic increase off Gun Club Road and residential roads Air Quality Health risks... Noise Pollution Property Values Risk to Groundwater contamination Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites) Darrell Eurich 126 N Ider St Aurora, CO 80018

From: Sent: To: Cc: Subject:	Kari Laudenslager <auburn93rn@yahoo.com> Monday, August 31, 2015 1:44 AM Rodriguez, Stephen E colorado@tpl.org Aurora Oil/Gas Development: DA-2010-00 - Grande 4-65 20-19 1DH 1CH 1BH 1AH - 1189 South Powhaton Boad (Powhaton and Mississippi)</auburn93rn@yahoo.com>
	South Powhaton Road (Powhaton and Mississippi).

To Whom It May Concern:

I am writing as a registered voter and resident of Aurora, CO in opposition of the proposed development in the preapplication phase noted as DA-2010-00 - Grande 4-65 20-19 1DH 1CH 1BH 1AH - 1189 South Powhaton Road (Powhaton and Mississippi).

My concerns include the usual things such as ground water contamination, air quality compromise, increased traffic and noise in the adjacent neighborhoods. However, my main personal concern is related to the Open Space land and proposed Triple Creek Greenbelt development. I noticed in the Pre-Application Notes from ConocoPhillips, the Parks, Recreation, Open Space recommends moving the pad out of the Open Space designated area. They also note that there will be visual impact to Greenbelt users. My entire family takes advantage of the wonderful Parks and Open Space in the Aurora area which makes me very disappointed that the City will allow ConocoPhillips to respond with "As discussed in the meeting on 7-28-15 with the City, COP and CVL, an environmental report was supplied to the City. There are no existing nests closer than a ½ mile of the site. Another evaluation will be conducted by COP days prior to pad construction. The results of which will be submitted to the City if acceptable to the landowner. The Site Plan is being submitted as originally designed, as agreed to in the July 28th meeting. We will address the review comments, including the potential distribution of topsoil, additional water quality ponds, etc., after the formal review." Further, civil engineering concerns are outlined - including items that the company has been cited for in the past - and the response is "As with previous oil and gas applications, civil engineering drawings will not be submitted. Only a SWMP and Drainage Letter will be submitted to Public Works for review and comment." Hold them accountable for fixing the issues our city officials have identified!!!

Our family settled here after living all over the world as a military family. To see the Eastern Plains sold and developed for oil and gas with no regard for future development is disheartening. I once was told by a member of the APS Board of Education that Adonea/Vista Peak Exploratory area would be the center of Aurora within 20 years. Really? Who will want to live out there with a fracking pad as a centerpiece? Develop the oil and gas industry, but please don't do it on the backs of our neighborhoods, quality of life, or environment.

Kari Laudenslager 7140 South Ider Ct Aurora, CO 80016 303-501-0462

From: Sent: To: Subject: Cindy <chull53@msn.com> Sunday, August 30, 2015 10:08 PM Rodriguez, Stephen E Conoco Phillips Multi Well Pad Application for Fracking

Dear City of Aurora/ Steve Rodriguez:

As a voter and resident of Aurora, we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites). We have lived in Thunderbird Estates for 30 years now and in recent years, have had to baby our wells along in this area. We don't want to take any chances that this multi-site pad might compromise our wells in any way....or even have the possibility to do so. This kind of operation needs to be miles from residential neighborhoods....especially around areas with wells. We also feel Conoco Phillips is being pretty sneaky in that virtually no one in the area or surrounding neighborhoods knew anything about this application in addition to the City receiving little or no comments on the subject.....that is sneaky!! We stand highly opposed to this application and hope you will consider denile! Thank you....

Don & Cindy Hull Thunderbird Estates 23768 E. Byers PI Aurora 80018

From: Sent: To: Subject: Chris Otey <c-otey@hotmail.com> Sunday, August 30, 2015 10:00 PM Rodriguez, Stephen E Public comment for ConocoPhillips fracking permits near Adonea and Murphy Creek

Dear City of Aurora:

As a resident of Aurora and an avid participant in the voting process at every level of government I oppose the ConoccoPhillips oil and gas drilling and fracking permit applications between the Murphy Creek and Adonea subdivisions. My concerns are many, and I will address them later in this correspondence; however, my extreme frustration stems mainly from the complete lack of transparency and little to no prior notification to the residents directly effected by these activities. It appears to the outside observer that this process is by design allowing little to no advanced warning of these permits and any City of Aurora actions involving them. This is neither the type of government the architects of this nation set out to create nor the ideals that I and many others have fought to defend through military service. A group, specifically the Aurora Oil and Gas Committee, made up of of pro-fracking entities, surface owners who profit from these decisions, and council members who do not have to live 1700 feet from a fracking well site are not the impartial entity I believe should be deciding our quality of life within our own homes.

As I mentioned earlier, I also have my concerns over potential fracking sites being approved within 1700 feet of my Adonea neighborhood. My wife, Rebecca Otey, has already written a public comment on this topic detailing the multitude of health concerns associated with fracking sites so close to residential areas. These include air quality, water table contamination, and lack of knowledge of chemicals used. All of these will effect not only people in their own homes but children from K-12 at two neighborhood schools.

In addition to these valid worries I am very anxious about how this will effect property values in our subdivision. Personally, I know that I would not willingly choose to purchase a home so close to a single fracking site let alone a house surrounded by three sites. I am not the only one who feels this way as I have seen several references (e.g. <u>http://www.reuters.com/article/2013/12/12/us-fracking-homeowners-analysis-idUSBRE9BB0GS20131212</u>) to a University of Denver study, which noted that the majority of people surveyed stated they would not buy a home near natural gas drilling. People's homes represent their single largest investment and any significant devaluation of their houses, especially in contrast to surrounding cities and current market factors, would be devastating to families in Aurora. Another very important factor the City of Aurora should be cognizant of is how this will effect development in these fledgling areas on the eastern edge of Aurora. Once word gets out that fracking sites are taking over the area not only will no one want to live here, but it will also have the follow-on effect of stalling or even killing off businesses and supporting infrastructure from setting up in this area. This particular area has the potential to grow and expand Aurora into the future but will likely fizzle out when no one else is willing to risk the City of Aurora allowing fracking sites to engulf their homes and businesses.

Thank you for taking the time to review my comment.

Sincerely,

Chris Otey

From: Sent: To: Subject: Sandy Reiman 2 <sandymtimm@gmail.com> Sunday, August 30, 2015 8:17 PM Rodriguez, Stephen E Fracking

Dear City of Aurora: As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

Sincerely,

Sandra Reiman

From: Sent: To: Subject: CenturyLink Customer <g.inskeep@q.com> Sunday, August 30, 2015 6:50 PM Rodriguez, Stephen E Fracking comments

As ever, I am opposed to fracking so close to homes near Adonea and Murphy Creek. The way this approval was handled is unconscionable, giving virtually no time for public protest. Clearly, the persons approving this are squarely in the pocket of CP and could care less about the 450 families at Adonea and those at Murphy Creek. I protest the damage that this will do to Aurora residents. Our safety (especially to developing fetuses), the negative effect on our home values, the increase in insurance due to earthquake potential, allowing a large industrial site so near our homes with noise, air and water pollution, damage to our precious environment and to wildlife is something that you would think our local government would protect us from. The handling of this issue clearly illustrates the total distain that these officials hold for the people they are supposed to represent. Could you please answer the following questions:

1. Who were the final approving officials?

2. Please describe, using Powaton and the cross streets for reference, where this site will be located and the distance to the nearest platted home.

3. Was more than one site approved? If so, could you describe it's location as in #2.

Please pass on my comments and thanks for your help.

From: Sent: To: Subject: Ken Reninger <kwrenin@yahoo.com> Sunday, August 30, 2015 4:55 PM Rodriguez, Stephen E Drilling & Fracking Permits in Adonea

Dear City of Aurora,

As a voter and resident of Aurora we oppose Conoco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

These applications do not appear to have been submitted in good faith and with the interest of those living in the area in mind. We received no notification at all that this was about to happen and it was only through a friend who happen to also hear last second that this was about to happen. We vehemently oppose these permits for all of the reasons mentioned above as well as for the neglect shown by Conoco Phillips to inform everyone who might be affected by these permits.

Very Respectfully,

Kenneth & Villamanda Reninger 25999 E. Bayaud Ave. Aurora, CO 80018 Adonea Neighborhood 720-431-0515

From:Carrie Hansen <c.hansen24@yahoo.com>Sent:Sunday, August 30, 2015 4:17 PMTo:Rodriguez, Stephen ESubject:RE: fracking between Murphy Creek and Adonea neighborhoods

Dear City of Aurora:

As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

Please don't allow this application. I recently bought my home in the Murphy Creek area because I want to raise my 3 year old daughter in a safe, healthy environment. Please keep our families and our homes safe!

Carrie Hansen 1449 S DeGaulle Ct

Aurora Co 80018

From:	Rebecca Otey <r_otey02@hotmail.com></r_otey02@hotmail.com>
Sent:	Sunday, August 30, 2015 2:10 PM
To:	Rodriguez, Stephen E
Subject:	Public comment for ConocoPhillips fracking permits near Adonea and Murphy Creek

## Dear Mr. Rodriguez,

I currently live in the Adonea subdivision in Aurora, Colorado where there is a strong push for hydraulic fracturing. Fracking permits threaten to dot our landscape with fracking towers. ConocoPhillips submitted an oil and gas multi-well pad application that includes multi drilling and fracking one mile from Murphy Creek and Adonea. There are many justifiable concerns as why these permits should not be allowed to go forward and ultimately lead to the construction of fracking sites. Fracking presents risks of adverse effects for public health and the environment as well as a drastic decrease in surrounding property values.

Let us begin with the most important aspect – public health. Companies such as ConocoPhillips are not required under any law to provide the public with the chemical makeup of their injection fluid and this is extremely alarming. The chemicals utilized in the fracturing process are deemed to be trade secrets much like a 'family recipe'. Within the millions of gallons of water used during the hydraulic fracturing process there are thousands of gallons of chemicals. The Committee on Energy & Commerce state that of the 14 leading oil and gas companies more than 2,500 hydraulic fracturing products are used for the process (2011, para. 6). This includes 750 different chemicals, 29 of them are known to be carcinogens and are regulated under the Safe Drinking Water Act (SDWA) when in drinking water water (Committee on Energy & Commerce, 2011, para. 6). However, Congress placed exclusions on the SDWA's regulation of the Underground Injection Control (UIC) program (EPA, 2014). Even though 29 of the 750 chemicals used in the hydraulic fracturing fluid mixtures are known carcinogens they are currently excluded from being regulated under the SDWA due to the exclusions placed on the UIC program (EPA, 2014). Beyond the chemicals that are known carcinogens, radioactive chemicals and chemicals that are endocrine disruptors are also contained within the mixture. Endocrine disruptors can cause infertilities in humans and have been found to cause male frogs to grow eggs within their testes. If there was an accidental release of fracturing fluid into groundwater due to a well malfunction, the fluid can migrate toward drinking aquifers, or flowback wastewater in storage containers may leak and contaminate nearby surface waters. Should I really not be concerned if these chemicals make it into the regional water table?

Public health is also strongly impacted by the air pollution surrounding fracking sites. Colorado prides itself on having some of the toughest air quality regulations in the country in regards to fracking. However, the air pollution, primarily volatile organic compounds (VOCs), are invisible and how are we as the general public to believe these regulations are being implemented. VOCs have been linked to causing cancer, respiratory problems, and damage to the kidneys, liver, and central nervous system. These sites will not only surround our communities, but an elementary school and high school as well. A few months ago, I read an article (<u>http://www.upworthy.com/thc-oil-and-gas-industry-helped-develop-a-camera-that-can-show-you-things-they-insist-arent-there</u>) about a camera called a FLIR optical gas imaging camera. Concerned citizens in Greely, Colorado purchased one of these cameras, which allowed them to see VOCs not seen by the naked eye. When using the camera there was a massive black plume cloud stretching from a fracking site to a high school. If ConocoPhillips's permits are approved my neighborhood and surrounding neighborhoods will be completely surrounded by fracking sites, and we will see a major impact to our quality of life. Our children may not be able to play outside on hotter days as the heat will hold in the air pollution closer to ground level.

I personally can see a fracking site from the window over my kitchen sink. I had the pleasure for months witnessing its glare from flaring in the evening, but even more pleasurable was the noise at night. At night, while trying to sleep there was a loud humming, which sounded like a semi-truck was parked on the street behind my house and left running, and this would keep me awake. Again, this is a major impact to the quality of life for all houses surrounding these sites.

From: Sent: To: Subject: Amanda Malloy <amandamalloy2@gmail.com> Sunday, August 30, 2015 9:21 AM Rodriguez, Stephen E Fracking Site in Aurora

Dear City of Aurora,

As a voter and resident of Aurora I oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons I oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites). How will Conocco Phillips protect my family from these potential threats? Why do they have to build these sites so close to Aurora homes? One of these sites will be the view from my back porch. Thanks for you time.

Amanda Malloy 303-898-4223

From:	Lynda Slater <iynda_slater80918@yahoo.com></iynda_slater80918@yahoo.com>
	Saturday, August 29, 2015 5:39 PM
То:	Rodriguez, Stephen E
Subject:	Opposed to drilling near playgrounds and schools

You don't need to drill in our neighborhoods, near our kids, their playgrounds and schools. You can move your project five miles east where there are no homes, so that you don't disrupt our area by making our new homes uninsurable because of the damage you do to our streets with your equipment and making our ruining our water table. All of which will also negatively impact the value of our homes and neighborhoods.

You have given us one weekend to share our concerns ~ instead of the 12 week period for public comment that we were told we would have.

If you move your project five miles east, none of these negative impacts on our children, schools, neighborhoods, homes and water table will happen.

We need you to do the right thing.

Sent from my iPhone

From: Sent:	t snizek <toddsnizek99@hotmail.com> Saturday, August 29, 2015 4:22 PM</toddsnizek99@hotmail.com>
To:	Rodriguez, Stephen E
Subject:	Conocco Phillips multi well pad site

Dear City of Aurora: As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea ...neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

Sent from Windows Mail

 

 From:
 Marsha Barkley <mlouisebarkley@yahoo.com>

 Sent:
 Saturday, August 29, 2015 3:55 PM

 To:
 Rodriguez, Stephen E

 Subject:
 Opposition to Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods

Dear City of Aurora:

As a voter and resident of Aurora I oppose the Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods and in any other Aurora neighborhood.

Some of the reasons we voters and residents oppose oil and gas drilling and fracking include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, compromised air quality, pollution, adverse effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

As a registered voter and resident of Aurora, I strongly urge you to act as my voice and oppose the Conocco Phillips oil and gas drilling and fracking application.

We are closely watching this situation and are counting on you to communicate our views to the proper Aurora government authorities.

Regards, Marsha L Barkley (contact information available upon request)

From:	Jerry Weingarten <jrweingarten@yahoo.com></jrweingarten@yahoo.com>
Sent:	Saturday, August 29, 2015 3:19 PM
То:	Rodriguez, Stephen E
Subject:	Opposition to Conocco Phillips oil and gas drilling and fracking application between Murphy
	Creek and Adonea neighborhoods

Dear City of Aurora:

As a voter and resident of Aurora I oppose the Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods and in any other Aurora neighborhood.

Some of the reasons we voters and residents oppose oil and gas drilling and fracking include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, compromised air quality, pollution, adverse effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

As a registered voter and resident of Aurora, I strongly urge you to act as my voice and oppose the Conocco Phillips oil and gas drilling and fracking application.

We are closely watching this situation and are counting on you to communicate our views to the proper Aurora government authorities.

Regards, Jerry R Weingarten (contact information available upon request)

From:	K Schauls <seatime.ks@gmail.com></seatime.ks@gmail.com>
Sent:	Saturday, August 29, 2015 1:00 PM
То:	Rodriguez, Stephen E
Subject:	Conoco

Dear City of Aurora Representatives,

Please keep Conoco Phillips fracking activity away from residential development. There is plenty of oil/gas rich land in Colorado that is not in a location that causes potential harm to the citizens, lowers property values, causes environmental health hazards, etc.

It's baffling as to why these oil and gas companies feel the need to drill so close to residential areas. It would seem logical that they could get a lot more done without any push back from "the people" if they would be a little conscientious and courteous and really hear what communities are saying.

Sincerely,

Kelly S.

Aurora, Co 80016

From:	Robert Hibbard <458winmag@gmail.com>
Sent:	Saturday, August 29, 2015 11:20 AM
То:	Rodriguez, Stephen E
Subject:	Multi well pad between Murphy Creek and Adonea

Dear City of Aurora: As a voter and resident of Aurora I oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution and decrease in property values.

Robert Hibbard

From: Sent: To: Cc: Subject: toddsnizek99@hotmail.com Saturday, August 29, 2015 9:38 AM Rodriguez, Stephen E Melissa Vander Kamp Conoco Phillips

#### Hello

I am writing to put on record that I am opposed to any and all fracking/drilling operations in or near Murphy Creek and Adonea neighborhoods. Further more, I will oppose any and all future applications for well pads in the City of Aurora.

Todd Snizek

Sent by Outlook for Android

From: Sent: To: Subject: Matty's Mail <marthadbriggs@gmail.com> Saturday, August 29, 2015 9:28 AM Rodriguez, Stephen E STOP FRACKING in Adonea

Dear City of Aurora:

As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

Martha D. Briggs

"How YOU speak to YOUR children becomes THEIR inner voice" ~Anonymous ♥

From: Sent: To: Subject: Krista Ingram <krista@homesbyingram.com> Saturday, August 29, 2015 7:56 AM Rodriguez, Stephen E Opposing Conocco Phillips oil and gas drilling

Dear City of Aurora: As a voter and 37 year (plus) resident of Aurora I oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons I oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites). My family and I live in Beacon Point in Southeast Aurora. Please know that the general population DOES NOT want this. They are unaware of what is going on. If they knew, they would not be in favor. Thank you for your time and consideration in this matter.

---

Best Regards,

Krista Ingram – Realtor, e-PRO, MRP The Ingram Group, LLC Keller Williams Park Meadows Associate Leadership Council 2009-2015 Typical Business Hours: Monday through Friday 9-5

720-281-0779 Direct <u>KristaIngram.com</u> <u>facebook.com/KristaIngramRealEstate</u>

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Please give me a call when you know anyone wanting to buy or sell property. I have an extensive network of amazing agents WORLDWIDE. My business thrives on referrals - thank you in advance for trusting me with those you know!

From:	Kari Phillips <karbearphillips@gmail.com></karbearphillips@gmail.com>
Sent:	Friday, August 28, 2015 9:52 PM
То:	Rodriguez, Stephen E
Subject:	Conoco oil and gas drilling and tracking application

Dear City of Aurora: As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

From: Sent: To: Subject: Shayna Reibman <shaynareib@comcast.net> Friday, August 28, 2015 7:30 PM Rodriguez, Stephen E ConocoPhillips application

Hello- I was recently informed that Conoco Phillips submitted oil and gas application with requests for drilling and tracking near Murphy Creek. As a homeowner n this community, I am strongly opposed to this. We already have several cracking sites in the area and I am concerned about the effects of these operations so close to our neighborhood. Please deny this application.

Shayna Reibman 24272 e Iowa pl Aurora co 80018

Please excuse any typos. Send from my iPad using dictation features.

From: Sent: To: Subject: Kimberly Jacobs <kimberly.jacobs04@gmail.com> Friday, August 28, 2015 7:26 PM Rodriguez, Stephen E Fracking site along gun club road

Hello,

I live in Tollgate Crossing and I am very concerned about a fracking site so near my home.

Fracking can cause water contamination, tons of air pollution, and trigger earthquakes. I understand there are likely high economic gains, but I don't believe they are worth the risks. Please reconsider allowing this in my neighborhood.

Thank you, Kimberly Jacobs 4772 South Fultondale Way Aurora, CO 80016

From: Sent: To: Subject: daniella leblanc-eget <daniella.eget@gmail.com> Friday, August 28, 2015 7:04 PM Rodriguez, Stephen E Oil Fracking

Good Evening,

I am a resident of Aurora and wanted to send an email in protest of the proposed fracking in Aurora between Mississippi Alignment and Powhatan Rd. I do not want this so close to residential areas.

Thank you,

Daniella LeBlanc-Eget

From:	Jaren Gomez <jgomez@bridgehcp.com></jgomez@bridgehcp.com>
Sent:	Friday, August 28, 2015 6:07 PM
To:	Rodriguez, Stephen E
Subject:	Opposition to Conoco Phillips Well Pad Application
Importance:	High

To Whom it May Concern,

I was recently notified through social media that Conoco Phillips has submitted an oil and gas multi well pad application within a mile of my future home. I am writing to express my deep and extreme opposition to this application.

My husband and I have been given the wonderful opportunity to build our dream home in the Murphy Creek community. We have spent the past 10 years working towards this goal, and I am in dishearten to learn that there is even a possibility of a well pad being built and operated so close to our home. One of the reasons we selected Murphy Creek was because of the beauty of the surrounding area. The endless open fields, blooming sunflowers, and prairie feel made our new house a home to us. Please do not allow a corporation such as Conoco Phillips to take away this beauty from my family.

Thank you for your consideration of my comments. Again, I urge you to deny this application and keep my community stunning!



Jaren Gomez Senior Client Specialist NextGen Certified Professional BRIDGE Healthcare Partners 303-813-7715 jgomez@bridgehcp.com www.bridgehcp.com

From:	fred mould <fredmould@hotmail.com></fredmould@hotmail.com>
Sent:	Monday, August 31, 2015 9:05 AM
To:	Rodriguez, Stephen E
Subject:	Comments on DA-2010-00

Good Morning Mr. Rodriguez,

I receive news blasts from Murphy Creek(MCGC Neighbors) on a regular basis. Over the past few years it has become obvious that the board of MCGC has become very Liberal and that the purpose of the board has become a mouthpiece for the anti-fracking movement. As you know as an owner of mineral rights I have the constitutional right to harvest my minerals. I do hope that The City Of Aurora recognizes this and that you take their concerns with a grain of salt when making permitting decisions. Thank You, Fred Mould, 980 S. Gun Club Road

Sent from Windows Mail

From:	Kim Agamaite <kimagamaite@yahoo.com></kimagamaite@yahoo.com>
Sent:	Monday, August 31, 2015 9:08 AM
То:	Rodriguez, Stephen E
Subject:	Proposed fracking between Murphy Creek and Adonea!

Dear City of Aurora:

As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. I'm sure you are aware how contraversial this is, but I believe there are some real valid reasons for concern. One reason, that I feel concern should be heard is how this application snuck in. They put it just far enough to not have to notify it's closest neighbors. While I am somewhat relieved that this particular application is farther from Adonea than some of the other proposed wells, there are still looming concerns that I just can't seem to justify.

Some of the reasons we oppose include health risks, risk to groundwater contamination regardless of how safe they say it is, not to mention that there is some concern over the shortage of water in Colorado in the coming few years. The amount of water that is used in fracking 1 well, let alone 4...that can't be treated and re-used for things like agriculture or drinking, is concerning. What if something goes wrong? They say they will be below the water table, things can crack and fracture. Cement is not foolproof. Then the air polution, I myself, have Asthma and have been dealing with enough this year with the haze from the fires out west. I moved to Colorado because I enjoy being outdoors and with fall coming, am excited to hike around. If I can't even sit outside my own house, that is NOT fair. We already have a good number of fracked sites roughly 1-2 miles east of Powhatan rd. That is close enough!

There will be an increase in truck traffic off Gun Club Road, Powhatan and residential roads, air quality and pollution, and the effects on wildlife and the Triple Creek Greenway Corridor. It might not seem like much to some, but those that live out here, like how pretty it is and the random chances to see wildlife as we go about our everyday.

Then there is the noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites). If I had any idea that this would be so close, when I bought here 9 years ago....we would have NOT purchased this home.

I attended the meeting that Conocco Phillips was at at Murphy Creek about a year ago, maybe more. They were speaking of how far out the potential impact radius is. There are homes, that will be affected. There are schools, in both Murphy Creek and not far from Adonea. Please realize how many people, including small children, are being affected by one massive company, and God forbid that if something tragic happens, will likely hide the any and all information to be held accountable for it.

I hope you, as a representative of the City of Aurora, will take into consideration our concerns. I'm sure we are not the only ones you are hearing from now that we have found out about this sneaky application.

Sincerely, Mark and Kim Agamaite

From: Sent: To: Subject: Dante White <dante.white@ringcentral.com> Monday, August 31, 2015 9:35 AM Rodriguez, Stephen E Opposition to the Conoco Phillips Multi Well Pad

Hello,

I recently found out that Conoco Phillips submitted an applications for a multi well pad in the East Aurora area.

I strongly oppose this and hope that the city reconsiders allowing this activity to take place in our community.

While I understand that it can bring economic gains for the city, I value my son's and I health much more.

Numerous studies have shown negative impacts both environmentally as well as health wise for residences living within range of these sites.

Thanks for taking the time to hear my voice, I appreciate it.

**Dante White** | Government & Healthcare Business Development-Upmarket Team Lead Phone | Eax | Text (720) 523-0664 *RingCentral* phone systems reimagined

"Make RingCentral for Google your business communications hub"



Watch Video Here: https://www.youtube.com/watch?v=ePGXeFy5\_Jc

From:	MARK MATTHEWS <mmatthews73@msn.com></mmatthews73@msn.com>
Sent:	Friday, August 28, 2015 5:35 PM
То:	Rodriguez, Stephen E
Subject:	ConocoPhillips Drilling near Murphy Creek and Adonea Filing

Dear City of Aurora:

As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

Mark Matthews

From: Sent: To: Subject: Rachelle Johnson <maryrachellejohnson@gmail.com> Friday, August 28, 2015 5:33 PM Rodriguez, Stephen E Opposing Drilling & Frackung in Aurora

I am a resident of Murphy Creek in Aurora and I am opposed to any drilling and fracking in Aurora especially out by our neighborhood. I would like any communication regarding these issues so that I might attend meetings or sign a petition. Whatever is needed to stop this I am willing to participate.

Thank you, Rachelle Johnson

From:	
Sent:	
To:	
Subject:	

Bridget Gordan <bridget.gordan@gmail.com> Friday, August 28, 2015 5:15 PM Rodriguez, Stephen E Conoco Phillips

To the City of Aurora,

I am under contract for a house in the Traditions neighborhood in Aurora - due to close on September 8th. I am dismayed to hear that fracking and oil/gas drilling may be approved in our new neighborhood.

We chose the location so we could be in a clean and safe environment and are opposed to fracking and oil/gas drilling so close to our new home. I am concerned about the health risks, groundwater contamination, increased traffic, air quality, and noise.

I am also concerned about how this will affect our property values and home insurance rates. Sincerely,

Bridget Gordan

From:	Susan McClain <susan.mcclain@microsoft.com></susan.mcclain@microsoft.com>
Sent:	Friday, August 28, 2015 5:07 PM
To:	Rodriguez, Stephen E; Peterson, Renie
Cc:	news@aurorasentinal.com; newstips@9news.com
Subject:	WE OPPOSE Drilling/Fracking near Adonea and Murphy Creek
Importance:	High

Dear Steve and City of Aurora,

Please do not sell out our health! As a long time Aurora resident and voter, I am strongly opposed to oil and gas drilling and fracking. Suddenly, drilling/fracking application has been filed (or refiled) near Adonea and Murphy Creek neighborhoods, and NO opportunity is available for citizens to speak out about it. The deliberate efforts to quiet citizen voices is disturbing to say the least. How did this happen? At a minimum the city needs to provide citizens a voice in the process. Please do not approve this application/permit.

We are deeply concerned about public health, water contamination, air quality, pollution, wildlife impact, noise pollution, traffic, large industrial sites hurting home values, and ugly industrial flames lighting up the sky 24x7. We bought our homes with confidence that Aurora was a city that cares for its citizens, but it's evident that many public officials do not have our interests at heart.

Sincerely Susan McClain 720-427-3813

From:	T Cox <psalm139family@gmail.com></psalm139family@gmail.com>
Sent:	Friday, August 28, 2015 4:57 PM
То:	Rodriguez, Stephen E
Subject:	Re: Fracking - Formal Complaint and Concerns Adonea / Murphy Creek

And on another note to my previous email:

Besides the health risks, groundwater contamination, increased truck traffic, air quality and pollution, the effects on wildlife... noise pollution and decreased property values... you are also going to drive up home insurance rates! Our property taxes are already absurd, with little amenities out by us, but to now we will have to pay more for insurance due to hazards. You are putting us at risk and costing us money and our health.

You have this application that just came through, with a quick response time and to me that is quite intentional to not have the community know what is going on to pass something under their noses. Again, only to know about it when it is too late.

Again, a very concerned homeowner and voter that hopes you all do the right thing! Tanya Cox

On Fri, Aug 28, 2015 at 2:49 PM, T Cox <<u>psalm139family@gmail.com</u>> wrote:

Dear Aurora,

I just learned that Conoco Phillips submitted an oil and gas multi-well pad application between Mississippi Alignment and Powhatan. While you only sent notification to those within ¼ of a mile, fracking sites affect people within a 1 mile radius, and even further. I do not appreciate that Aurora or Conoco Phillips have kept this all quiet and under wraps only notifying the select few. It is truly sad that so many people that live in this city will not know until it is too late because you are hiding the information.

My comments to that are: No wells should be placed near residences and it certainly is not just <sup>1</sup>/<sub>4</sub> mile zone of those affected. The following items are my areas of concern for our COMMUNITY!

1) Air quality - Colorado's air quality has become poor and I have no doubt this is due to all the fracking going on in Colorado with limited restrictions and regulations put upon companies. When the air quality plane flies over, fracking mysteriously subsides to make it look okay. This air that you are now planning on affecting is not within a  $\frac{1}{4}$  mile radius. This is

You have high taxes in Aurora, and yet what are we getting? We get a fracking well or two or five or ten. Just keep it going. Affect our air, our water, our home value, our stand of living our future! It just doesn't seem right. Colorado was an eco-friendly state, but now look at it. The air quality is gone and homes are being encroached upon by oil companies.

My husband and I live in Traditions (in which we border Adonea). We chose our home because of the location. Take a drive, it is very peaceful...filled with open land, wildlife, less air pollution and certainly less noise. It is a community filled with children and families. A growing community at that, however if you keep things going at this rate and allow fracking, you are certainly putting a nails in our coffin and not allowing us a chance to thrive and live.

A very concerned homeowner that hopes you all do the right thing!

Tanya Cox

From:	D Schori <schorimail@gmail.com></schorimail@gmail.com>
Sent:	Friday, August 28, 2015 4:50 PM
To:	Rodriguez, Stephen E
Subject:	Ref: Conocco Phillips Fracking Application

High

Importance:

Dear City of Aurora:

As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increased risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

v/r

Dathan Schori and Paula Lloyd-Schori 183 N. Muscadine Ct Aurora, CO 80018

From: Sent: To: Subject: Erin Graves <eringraves77@gmail.com> Monday, August 31, 2015 12:55 PM Rodriguez, Stephen E ConocoPhillips Application

Mr. Rodriguez,

I oppose the application for drilling by ConocoPhillips in East Aurora for the following reasons:

Safety- this community is full of young families whose children regularly play outside at local parks. The increase in traffic and machinery used will pollute our air. The chemicals used to extract oil can pollute our water supply.

Decrease in property values- this area of Aurora is important to the future commerce of the entire city. It is an affordable, new, location where middle class families will be drawn to live. Without fracking, that is. Aurora needs communities like this to grow and change this community for the better.

Please oppose this application for drilling immediately.

Sincerely,

Erin Graves 303-359-7557

From: Sent: To: Subject: Teresa Strawn <tjjdaj@yahoo.com> Monday, August 31, 2015 12:32 PM Rodriguez, Stephen E NO FRACKING!!!

Dear Mr. Rodriguez:

Shortly after getting married in AZ, my husband and I knew that we did not want to raise a family in AZ. So, we sat down and talked a great deal about where we did want to raise a family. After some debate, we decided that we wanted to call CO home. So, on our 1 year anniversary we packed up and moved to CO, and started searching for a home. And we landed in the Adonea neighborhood in Aurora.

Almost immediately upon moving into our home, we knew we had made the right choice. Adonea is a great community with many wonderful families and lots and lots of young kiddos - including our daughter. Adonea is exactly what we hoped for when we discussed where we wanted to call home - a community in which my husband, my daughter, and I have made life- long friends. A community in which my family feels safe. A community in which we are proud to watch our daughter grow up and go to school. A community in which you can look outdoors nearly any time and see kids and adults alike enjoying our community. We moved into one of the very first houses in Adonea in 2006, and have loved seeing the wonderful growth!

What did we NOT imagine in our community? Fracking. And all of the equipment that goes along with it. And the increased traffic that goes with it. And the unknown health concerns that go along with it.

Admittedly, I do not know a lot about Fracking. It's hard to decipher the information about it because both sides feel very, very strongly. However, I do know that I don't want it in my backyard, for fear it could cause harm to my daughter, my friends, my family, and my community. Please, on behalf of my family and the many other wonderful families in Adoena, please do what you can to halt ConocoPhillips' multi-drilling and Fracking Application.

Sincerely, Teresa Johnson

Sent from my iPhone

From:
Sent:
То:
Subject:

Ashley DeLaup <ashdelaup@gmail.com> Monday, August 31, 2015 12:09 PM Rodriguez, Stephen E Fracking in our neighborhoods

To the City of Aurora and oil and gas interests:

As a resident and voter in Aurora I am horrified at the thought of fracking and oil and gas development in close proximity to our neighborhoods. This is where we raise our children and have made our largest investments and fracking poses significant threats to both. A Conoco-Philips PR representative at the Murphy Creek meeting last year specifically explained to me that they were only liable for any contamination, accidents, and damages IF they are sued and lose, which is much to late for the health and safety of my family and the families in our neighborhoods. Neighborhood already impacted by fracking are struggling with increased traffic, air pollution, water pollution, MASSIVE loss of usable water (which is far more important to life than oil), noise pollution, increased insurance rates and more. Don't do this to us, our quality of life is more important than Oil & Gas profit, especially since this industry is responsible to NO ONE, not even having to adhere to basic environmental quality laws.

Additionally as a wildlife ecologist and someone who has participated in preparation of EIS reports I see huge holes in what is asked for in this area. I frequently bird along Powhoton and there are numerous ground nesting birds and declining species found breeding in the area, including burrowing owls, horned larks, loggerhead shrikes and western meadowlarks. A burrowing owl survey should ALWAYS be done along this area. Black-tailed prairie dogs and their burrow systems are in the area, migration paths of black tailed deer and more are in the area.

We've also seen that they don't think gas exploration is such an issue as we have witnessed them burning off natural gas not for days but weeks and months as this "critical" fuel was harvested and wasted. Who know how much natural gas was lost and adding to air quality issues without ANY benefit to anyone. This is not what we need or deserve. Discourage oil and gas exploration and harvest in our community.

Thank you, Ashley DeLaup

d.

From: Sent: To: Subject: Renae Scott <renaels42@gmail.com> Monday, August 31, 2015 11:45 AM Rodriguez, Stephen E Opposition of Fracking

Dear City of Aurora:

I am a resident of the Adonea community in Arapahoe county, and a member of one of the families that will directly be affected if this multi-drilling application submitted by Conoco-Phillips is approved.

While in support of energy production in Colorado, I see no benefit to having this drilling site so close to our community, where we, and our children play freely. We absolutely do not need to be exposed to the proven health risks that fracking brings, let alone the risk to groundwater contamination, increase in truck traffic on residential streets (and Gun Club, Powhawton, etc.), air quality/pollution, noise pollution, along with effects on wildlife and the Triple Creek Greenway corridor. This also brings increases in home insurance rates (fracking increases risks of earthquakes, hazard insurance, etc.) and property values decrease.

At an open house that was held by Conoco-Philips earlier in the year in Murphy Creek, they indicated that they can drill horizontally for a mile or so. With this opportunity to do so, why the need to drill so very close to our neighborhood??

As a registered voter, I strongly oppose this application by Conoco-Phillips and would welcome any chance to stop their efforts to disrupt our community and homes.

Sincerely,

Renae L. Scott 25933 E Parkview Pl Aurora, CO 80018 720-987-4038 renaels42@gmail.com

From:	Sarah Ault <smarie6@gmail.com></smarie6@gmail.com>
Sent:	Monday, August 31, 2015 11:28 AM
То:	Rodriguez, Stephen E
Subject:	oppose fracking site between Murphy Creek and Adonea

Dear City of Aurora: As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

We purchased our home here in Southeast Aurora because we believed it to be a great neighborhood for our son to grow up in. We want the environment to stay beautiful for our son and fracking sites nearby are very concerning.

Please deny this application and keep our area beautiful and safe. Thank you, Sarah and Michael Ault

From:
Sent:
To:
Subject:

Nicole Johnston Zipsie <njzconsulting@hotmail.com> Monday, August 31, 2015 11:14 AM Rodriguez, Stephen E Oppose CP Multi drilling/Fracking application

Dear City of Aurora-

As an Adonea homeowner and registered voter, I oppose the Conoco Phillips application for drilling and fracking at the Powhatan and Missisippi location.

Besides the effect to our health, property value, wildlife, home insurance rates, the haul route going through our neighborhood and more, I am concerned of the safety and inspection violations of Conoco Phillips cited by the COGCC within the last year. Why does Conoco Phillips have to drill close to residential areas? I have become so concerned of these issues that after the city granted mineral rights leasing to Conoco Phillips, I started a community advocacy group called East Aurora Community Development. Using social media, we are now 500 strong and growing everyday. I just found out about the application toward the end of the day (Friday, August 28) and galvanized opposition. We will continue to organize to protect our community. I hope Conoco Phillips and the City of Aurora consider truly being good neighbors and reconsider drilling and fracking near our residential area.

Thank you, Nicole Johnston 189 n Millbrook street Aurora, CO 80018

From: Sent: To: Subject: E. Fleck <silverpinecone@msn.com> Monday, August 31, 2015 11:13 AM Rodriguez, Stephen E I am opposed to proposed drilling & fracking site near Murphy Creek

Dear Steve,

I wanted to take a moment to send you an email to let you know of my strong opposition to the Conocco Phillps application to drill, frack, and install oil well pads near the Murphy Creek subdivision. As you probably already know, Conocco Phillips already has multiple wells on Quincy Avenue and Watkins Road east of developed neighborhoods and does not need additional wells in our neighborhoods. Their fracking and drilling application poses a risk to our groundwater supply and our health in general - not to mention the increased seismic activity that can come from fracking. If approved, Gun Club road, which is already a heavily traveled road with many accidents, will become even more dangerous with the trucking traffic this will bring. Our wildlife will also be at risk from the additional traffic as well as the pollutants this operation will introduce into the environment. I ask that you deny this application and understand that we as voting taxpayers in eastern Aurora want to be able to raise our children in a safe and non-toxic environment, which is why we moved here. However, if wells continue to spring up on this side of town, we will be looking to move from the area (before our houses completely devaluate) and take our tax dollars with us to a city/county that protects its residents from Big Oil. I ask that you deny their application and make a statement that Aurora does not want its residents being forced to share space with oil wells.

Thank you Erin Fleck Aurora, CO 303-345-3470

From:	R Gailegos <gallegosr@outlook.com></gallegosr@outlook.com>
Sent:	Monday, August 31, 2015 1:08 PM
To:	Rodriguez, Stephen E
Subject:	Letter Opposing Conoco Phillips Application(s)

Dear Mr. Rodriguez:

l understand that Conoco Phillips has submitted an oil and gas multi well pad application that includes multi drilling and Fracking one mile from Murphy

Creek and Adonea subdivisions between Mississippi Alignment and Powhatan Rd.

## As a homeowner in Adonea, our family opposes this application & the proposed fracking site(s).

The dangers of fracking are well-documented and well-known including:

- 1. Each gas well requires an average of *400 tanker trucks* to carry water and supplies to and from the site,
- 2. It takes 1-8 million gallons of water to complete each fracturing job,
- 3. The water brought in is mixed with sand and chemicals to create fracking fluid. *Approximately* 40,000 gallons of chemicals are used per fracture.
- 4. Up to *600 chemicals* are used in fracking fluid, *including known carcinogens and toxins* such as:
  - o Lead
  - o **Uranium**
  - o Mercury
  - Ethylene Glycol
  - o Radium
  - o Methanol
  - Hydrochloric Acid and
  - o Formaldehyde.
- 5. During the fracking process, <u>methane gas and toxic chemicals leach out from the system</u> <u>and contaminate nearby groundwater</u>.

Methane concentrations are 17x higher in drinking-water wells near fracturing sites than in normal wells.

- 6. There have been over **1,000 documented cases of water contamination next to areas of gas drilling** as well as cases of *sensory, respiratory, and neurological damage* due to ingested contaminated water.
- 7. Only 30-50% of the fracturing fluid is recovered, the *rest of the toxic fluid is left in the ground and is not biodegradable.*
- 8. The waste fluid is left in open air pits to evaporate, releasing *harmful VOC's* (volatile organic compounds) into the atmosphere, *creating contaminated air, acid rain, and ground level ozone.*

As you can rightly summarize, these dangers <u>will cause significant physical harm to the people</u> <u>living in our communities</u>, as well as significant

financial harm by greatly reducing our home values. As a nation, we are committed to move towards clean, safe, renewable sources

From: Sent: To: Subject: Berg, Stacey <Stacey.Berg@level3.com> Monday, August 31, 2015 4:17 PM Rodriguez, Stephen E Fracking

We oppose Fracking within 30 miles of Murphy Creek.

Thank you, Stacey and Peter Berg Murphy Creek Residents

From:	
Sent:	
То:	
Subject:	

Andrew Keaggy <akeaggy@ricca.com> Monday, August 31, 2015 4:44 PM Rodriguez, Stephen E Opposition to Conocco Phillips Application MC and A

#### Good Afternoon Steve,

As a voter and a resident of the City of Aurora myself and my family strongly oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. There are a few major reasons why I oppose this happening so close to my neighborhood and children's school. My first reason is there was a Conocco Phillips pad east on Jewell Rd. about 3 miles from the main entrance of Murphy Creek. To educate myself about fracking I would drive down to the site off and on for about 3 month while the fracking was in progress. The operation is very loud, large trucks are going in and out of the operations constantly, diesel generators running 24 hours a day and not to mention the very odd smell that was lingering around the site every time I would visit. Well fast forward to present time, the operation is done however there are still diesel generators running constantly and the odor is worse than ever. The smell of a propane type odor all the time, constantly!! Sometimes so bad you can't stand next to the well for very long. I would like to extend an invite to yourself and city staff to come down to this site and the other sites on Jewell Rd. and smell the strange odor coming from the site still to this day. I don't understand if fracking is so 'safe and harmless' what is the odor you smell coming from the sites?? I thought maybe it's just me, so I would also drive down to the Conocco Motocross site (a mile past the cottonwood creek site) and there is the same smell!!! What is it?? This is very concerning that this smell might be in our neighborhood permanently if this MEGA pad is approved. PLEASE, do not approve this mega site, I am not opposed for a MEGA pad, just not in the back yard of 2 prospering developments within your city limits. It is just not fair to approve this type of operation without the surrounding neighborhoods input and approval. When you start encroaching on neighborhoods without any input from the residents you're not only putting our health, our children's health and our property values at an extreme risk but it should be a communal effort!!! You are the City and you have the power to say permit DENIED!! I do not want a constant, very unhealthy odor around my house, kids or there school, especially an odor that NOBODY can identify. Please deny this application or come up with a solution with Conocco that will push the operation as far east as possible.

**Respectfully Yours**,

Andrew Keaggy Senior Project Manager

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5325 S. Valentia Way | Greenwood Village, CO 80111 o. 303.221.0500 | d. 303.928.1378 akeaggy@ricca.com | www.ricca.com

From: Sent: To: Subject: e.cedeno22@yahoo.com Monday, August 31, 2015 5:04 PM Rodriguez, Stephen E Fracking

Mr Rodriguez,

I'm against fracking in our neighborhood, I truly believe that it's not safe for our city and environment. I hope you will reconsider about drilling and fracking application and will deny it. Thanks in advance.

Regards,

**Emel Cedeno** 

Sent from my iPhone

From: Sent: To: Subject: klfeichtner Gmail <klfeichtner@gmail.com> Monday, August 31, 2015 5:08 PM Rodriguez, Stephen E No Fracking

Hello,

I wanted to officially state that I oppose Conoco Phillips multi drilling and fracking around my city and neighborhood.

My address is: 20609 E Hamilton Circle Aurora, CO 80013

Kristen Feichtner 3038854215

From: Sent: To: Subject: Pat Gatterman <pgatterman@yahoo.com> Monday, August 31, 2015 1:41 PM Rodriguez, Stephen E Fracking

Dear City of Aurora: As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

Sent from my iPhone

From: Sent: To: Subject: Tom <trospopo@live.com> Monday, August 31, 2015 2:51 PM Rodriguez, Stephen E Opposition to fracking near Adonea neighborhood

Sir:

As a resident of the Cross Creek and Adonea area of Aurora, I would strongly request that you deny the Conoco application to add fracking wells in this area. While I find that oil companies are very good at getting oil from the ground and making profits from that, I believe they are very bad at being good neighbors. Especially in the case of moving into a neighborhood which already exists.

Consider:

Oil frackers have no consideration in revealing what toxic substances they are pumping into the ground along with millions of gallons of water. This water is permanently ruined for firther human use forever after, and while they claim they must protect their "recipes", science has shown that they will not share what those chemicals are.

Oil frackers continue to deny that their work causes seismic activity where non has occurred before them is dishonest at the least. Consequently, any damage done to houses near their well sites. While this may seem trivial, I think it is safe to say that they will not step up and pay for any damage to foundations which might be damaged.

Oil frackers have oil spills. No one can deny that they occur. And as a whole, they are not terribly concerned about getting them cleaned up in a timely fashion. Adding this risk to the added noise, traffic and smell of oil in the air, there will no longer be the same quality to the neighborhoods that we currently enjoy.

The neighborhoods in question have very few options to access roads leading to other parts of the city. By tying up any portion of Gun Club Road, they have eliminated smooth exit to the south for residents to use State Highway 30 to get into Littleton or Aurora, or north bound they tie up the access road needed to get to US 70 or Colfax Road. This is in itself a problem, with school traffic as well as residents trying to get to work. This gets worse by the year without the addition of huge trucks rolling down the road all day and night.

There is no doubt that fracking lowers home prices for homes near that activity. We try to provide good homes and make good neighborhoods for ourselves, but oil frackers make no effort to alleviate lowered property values to those homes affected. And by the way, I believe very few people want to live in an oil field. Most existing homeowners in neighborhoods that share space with oil frackers were there before the fracking began. Mineral rights be damned, there is nothing noble and fair about allowing frackers in after homes have been built in the numbers that they exist out here at this time.

The residents of Cross Creek and Adonea have made a commitment to the city of Aurora to pay taxes and build nice neighborhoods, without any existing amenities such as grocery stores or drug stores in this area, because we believe that the city will continue to support our growth. The least the city of Aurora can do is make a commitment to us by denying this application and all subsequent applications for oil frackers in our back yards.

From: Sent: To: Subject: J. Lima <joe.lima@live.com> Monday, August 31, 2015 3:16 PM Rodriguez, Stephen E New Fracking Plans

Hi Stephen,

I was just informed of possible new fracking sites being proposed close to Beacon Point. I was wondering if you have any information you can share about the new site proposal.

Thanks, Joe Lima

From: Sent: To: Subject: 7208384055@messaging.sprintpcs.com Monday, August 31, 2015 6:06 PM Rodriguez, Stephen E 2/2

ts. I am concerned deeply about the effects on our home values. Please stop this!

From: Sent: To: Subject: 7208384055@messaging.sprintpcs.com Monday, August 31, 2015 6:06 PM Rodriguez, Stephen E 1/2

I am Firmly against fracking so very close to our homes our schools. I worry how about the long term health and environmental effec

From:
Sent:
To:
Subject:

Jen Robinson <jen\_robinson@ymail.com> Wednesday, September 02, 2015 12:46 PM Rodriguez, Stephen E Conocco Phillips Application Objection

Sir,

As residents of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods.

This will impact our life and pose health risks for our family, increase traffic in the area, affect air quality and our property value. We recently relocated to Aurora and with so many people moving to Colorado, please consider that allowing fracking will put people off choosing to live in this area and city - a lot of tax dollars going elsewhere.

Thank you.

Graeme & Jen Robinson 6482 S Millbrook Way Aurora

From:	Artha Frickel <arthafrickel@gmail.com></arthafrickel@gmail.com>
Sent:	Wednesday, September 02, 2015 11:55 AM
То:	Rodriguez, Stephen E
Subject:	Oil drilling

Dear City of Aurora:

As a voter and resident of Aurora I oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination, increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

Artha L. Frickel

720-301-7981

From:	k.frickel@comcast.net
Sent:	Wednesday, September 02, 2015 11:51 AM
To:	Rodriguez, Stephen E
Cc:	frickel, k
Subject:	Proposed oil and gas wells

Dear City of Aurora: As a voter and resident of Aurora we oppose Conocco Phillips oil and gas drilling and fracking application between Murphy Creek and Adonea neighborhoods. Some of the reasons we oppose include health risks, risk to groundwater contamination,

increase in truck traffic off Gun Club Road and residential roads, air quality and pollution, the effects on wildlife and the Triple Creek Greenway Corridor, noise pollution, decrease in property values and increase in Home Insurance rates (since fracking is associated with

increase risk of earthquakes, hazard insurance is being increase for homes near fracking sites).

Kevin Frickel

720-366-2713



September 3, 2015

Stephen Rodriguez City of Aurora Planning and Development 15151 E, Alameda Parkway 2<sup>nd</sup> Floor Aurora, CO 80012

RE: Grande 4-65-20-19 1DH 1CH 1BH 1AH – Gas and Oil Well Permit - CSP Case No. DA-2010 TCHD No. 3609

Dear Mr. Rodriguez:

Tri-County Health Department (TCHD) has reviewed the application for a Contextual Site Plan (CSP) to drill and complete four oil and gas wells southwest of the corner of Mississippi alignment and Powhaton Road in Section 20, Township 4 South, Range 65 West of the Sixth Principal Meridian, City of Aurora, Arapahoe County. Based on the information provided in the application, TCHD staff has the following comments.

#### **Domestic Wastewater Management**

Proper wastewater management promotes effective and responsible water use, protects potable water from contaminants, and provides appropriate collection, treatment, and disposal of waste that protects public health and the environment. The drilling site plan indicates locations of two septic tanks.

TCHD permits the use of septic tanks. No recent application for an On-Site Wastewater Treatment System (OWTS) permit for the septic tanks has been received by TCHD. The applicant must complete an application to install an OWTS (also known as individual sewage disposal system and in some cases vault), receive a permit to construct, schedule an inspection, and receive a use permit from TCHD. If the applicant plans to use an OWTS that has already received a use permit for a different location, the applicant shall contact TCHD to schedule an inspection once the OWTS system is moved to this site.

#### **Baseline Water Quality Testing**

Water quality is unregulated in domestic and irrigation wells in Colorado and monitored in a limited manner for commercial wells. This means water quality testing is typically not required, and the water quality is often unknown. In general, TCHD supports baseline water quality testing to establish the existing water quality relative to the well's permitted use and to identify water quality issues that should be known and addressed by the well's owner. Baseline water quality testing can also provide an understanding of pre-existing conditions should the water quality change in the future. Baseline and subsequent water quality testing data can support a determination of whether water treatment may be needed to protect the health of well water users and the health of the environment.

#### Specific Recommendations for Water Wells within 1/2 mile:

TCHD believes that any owner of a well within one-half mile of the proposed oil and gas operation should have the opportunity to obtain a baseline water quality test prior to the change in land use. One-half mile is the area of influence established by the Colorado Grande 4-65-20-19 1DH 1CH 1BH 1AH Oil and Gas Well September 2, 2015 Page 2 of 3

Oil and Gas Conservation Commission's Final Rule 609 Statewide Groundwater Baseline Sampling and Monitoring.

TCHD recommends the following for well permits and water rights holders located within one-half mile of the proposed oil and gas well as they are likely used or will be used for drinking water for humans or animals.

- That the City or applicant notify owners of the wells or groundwater rights owners of the proposed application;
- That the City refer well owners who want to test their wells to TCHD for guidance on recommended testing parameters, procedures for selection of qualified sampling professionals and laboratories, and sharing of data; and
- That the City refer well owners desiring guidance for wellhead protection to TCHD.

#### Water Supply for Use by Workers

Providing clean and safe water for use by workers for ware washing, food preparation, hand washing, and showering is important. The majority of foodborne illnesses can be traced to improper food handling procedures in home, retail, or office kitchens. Improper transport, storage, cross-connections, and backflow also pose dangers to potable water quality. Two potable water tanks are shown on the Drilling Site Plan. TCHD will need to review information regarding the source of water for workers as well as any proposed potable water system used by workers. If the drinking water is to be hauled, a public water system identification number for the water hauler must be provided to TCHD.

#### **Potential Temporary Water Storage**

Non-potable water is used onsite. The storage tank should be marked with a sign indicating the water is non-potable. In addition, these very large water storage tanks have the potential to collapse if not properly constructed with appropriate quality controls. A collapse can result in significant damage to the environment, property, and individuals that may be nearby. TCHD recommends the applicant employ proper quality control techniques when constructing the water storage tank.

#### Above Ground Storage Tanks

Fuel is stored onsite. All storage tanks must have a secondary containment area, a routine monitoring system to check for leaks, and best management practices implemented in order to prevent the release of contaminants into the soil and water supplies.

#### **Emergency Response Plan**

One of the most common environmental releases associated with oil and gas drilling operations is the inadvertent surface spill of chemicals, produced water, or flowback water. TCHD reviewed the Emergency Response Plan included in the application. Upon review, the response and notification appears to be adequate for hydrocarbon spills, hazardous chemical spills, and produced water spills. The list of Best Management Practices in Section B of the report included in the application highlights effective strategies for minimizing the risk of spills. If a spill or incident were to occur, the emergency response to spills should be indicated in the Spill Prevention, Control, and Countermeasures Plan that is kept onsite.

Specific information related directly to a potential leak or spill from the domestic wastewater system should be addressed. In the event there is a domestic wastewater spill or leak, TCHD should be contacted immediately.

Grande 4-65-20-19 1DH 1CH 1BH 1AH Oil and Gas Well September 2, 2015 Page 3 of 3

#### **Air Quality Permitting**

Air pollutant emissions including flares are regulated by the Colorado Department of Public Health and Environment. Vapor recovery equipment should be used to control the release of vapors into the environment. The use of green completion technology is strongly encouraged at every site. If the site is to use multiple flares and combustors, the oil and gas industry permits should include a regulatory analysis determining the applicability of state and federal air quality permitting requirements and air pollution control regulations for the proposed emissions source(s). More information as well as all forms can be found online at <a href="http://www.colorado.gov/cs/Satellite?c=Page&childpagename=CBONWrapper">http://www.colorado.gov/cs/Satellite?c=Page&childpagename=CBONWrapper</a>.

#### **Stormwater Permit for Construction**

TCHD recognizes that the applicant will submit to the City of Aurora a Grading, Erosion and Sediment Control Plan and best management practices. This will help minimize the environmental impact resulting from any construction and land disturbance on the site. TCHD encourages any reclamation, including site pad minimization, and reseeding activities to occur as early as possible. This prevents erosion, helps control excessive weeds, and can provide some benefit to air quality.

#### **Traffic Safety**

Oil and gas production and monitoring wells involve significant truck traffic to and from a site during the construction and drilling process. TCHD encourages the City to designate a primary traffic route for all construction traffic and deliveries. If the trucks servicing the site will be traveling on a local school bus route, we encourage the City to work with the applicant to minimize traffic during hours when school buses are in operation.

Please feel free to contact me at (720) 200-1571 or slynch@tchd.org if you have any questions.

Sincerely,

Shila Sprel

Sheila Lynch Land Use Program Coordinator Tri-County Health Department

CC: Steve Chevalier, Brad Turpin, TCHD