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I **Object** to Hume Coal Projects EIS SSD 15\_7172 , 7171

All 13 EIS books for the Hume Coal Project I have looked at, in our local Library.

(Not all in one sitting.) Thank you for reading my letter.

Permanent Southern Highlands resident for almost 20 years. I make no donations to political associations

**I say no.**

I request all mining leases should be cancelled. Mining leases NEVER issued Ever again in the Southern Highlands & any Water Catchment Areas.

Aquifers, Rivers, Creeks, Streams, Farms, Water Catchments & Swamps  
Agricultural Lands should be Protected forever.

**Protection of Australia's Water , Lands & Food Production areas should be TOP Priority - Protect & Preserve for all Time for all Generations to come.**

I say NO to the Hume Korean Coal project & any future coal/coal seam gas mining projects' in the Southern Highlands because: -

This is what I believe will happen to my own Home, Land, Aquifers, Rivers, Creeks, Streams, Environs' People and Community.

I do NOT want this to happen –

This is what I believe will happen \* if \* the Hume Korean Coal Mine was built:-  
My House - My Home, My Land - My Garden, My life - My healthy lifestyle, My Village, My Community, the whole Southern Highlands, Fauna, Flora, lush rolling

**Green Hills, Valleys, Pristine Aquifers & Waterways, Healthy Fertile Soils, Clean Air would be contaminated. All Environs damaged, ruined - changed forever and look like this:-**

After Hume Korean Coal Mine ref: - fig 2.

Before Coal Mine ref: - fig 1.

EIS... Hume Korean Coal will be a Low impact mine.

EIS...Hume Korean Coal will lower the water table by 80mtrs.

**Aquifers ground waters depleted** How will it be low impact? when the EIS states **water table lowered by 80 metres.**

When the water table drops— very fast, my trees / Our Highlands trees, Our Forests' will die.

Crown Land - Australian Native Trees, Aussi Bush, Forests, close to the coal mine will die.

Massive tree die outs will occur. For decades our Trees' grow their roots down into the moist soils near the Aquifer, water table reduction will cause tree roots to dry out & die, trees won't survive. This is the Sydney Drinking Water Catchment Zone.

How will Hume Korean Coal help keep our forests, our trees stay alive?

How will Hume Korean Coal make the tree roots grow very fast & very deep, down – 80 meters to access soil moisture in the lowered water table?

Water catchment erosion zones – The Hume Korean Coal Mine **water reduction** will **trigger - dead trees that will create soil erosion** - rain water runs down hills & valleys into water ways the rivers, streams & creeks. What will happen to the Sydney drinking Water Catchments Zone.? Top soil.? Silt.? run off.? drains into catchment.?

**Southern Highlands experiences “green” Droughts** because of our Clean Pristine Aquifers. **Trees keep alive** their root systems grow in moist soils around the Aquifers.

Local Farms / Agriculture / Vine yards who rely on under ground bores & springs will have massive water losses when Hume Korean Coal lowers the water table.

What happens to them & to their small business, livelihoods, self-employed, where will they live, how will they get jobs. They currently make their living off the Land - **Healthy Clean Soils & access to Clean Water.**

**The Southern Highlands - Clean Green & Beautiful.**

Who gives Hume Korean Coal the rights to Deplete Aquifers & lower the water table.

**My land – sits on top of the Aquifer. No Water = No Soil Moisture.**

Dried out soils = reduction in Micro-organisms, fungi filaments' inter-connecting plant root systems, natures life cycles - organic soil structures will be changed, will die when the water table is lowered –

Creating massive soil moisture reduction, top soil erosion will take place.

Soil Fauna & Flora above & below ground.. dead, tree roots dried out eventually trees.. dead. Dry Soils = dust bowels + wind => dust storms future events ? t.b.a.

**My own Land Direct Negative Impact by Hume Korean Coal Mine.**

My own land soil moisture depleted by Hume coal mine lowering the water table.

Drier sub- soils absorb upper level soil moisture.

This creates a double chain reaction in drought times.

Lower level soil moisture gone, top soil dried out by Drought, the Sun & Wind.

Reduced soil moisture will cause my soils to die, my lovely long pink worms will die, my burrowing frogs that live in the soil will die, when my soils die, my garden will die too.

This is very upsetting for me and making me cry.

I've been creating my lovely little garden for almost 20 years. Planting tulip bulbs, daffodils, john quills all sorts, flowers, roses – a peace rose, miniature conifers, cherry & plumb blossoming trees, camellias' all sorts, and beautiful rhododendrons',

I enjoy working my lands wonderfully rich fertile soil, planting, nurturing & watching my garden grow. For the last 20 years Enjoying my beautiful flowering, deciduous & evergreen garden - every day of the year.

Hume Korean Coal Mine will Directly effect me: - **My land, My home, My Life**  
**a Massive Negative Effect.**

**My House & Land impact by a Lowered water table.**

Dried out.. Dead soils, sub-soils below my house – cracking my house foundations.

Sink Holes may be created in the Aquifers rock/soil layers due to water extraction. – Soils, sub- soils, geology instability, under my house will occur.! When ?

**Sink holes will open up at any time in the future – Where & when - unknown- possibly under my house, or under my street, or when I'm driving on the Highway or riding the train – Sydney to Melbourne - Major Transport Links - !**

**Geology damaged, Aquifer fractured, “feather” tunnels and coal mine voids- will be under all the above. Created by Hume Korean Coal Mine**

**Massive Risk to Peoples' lives, Infrastructure and the Australian Economy.**

**My Land - future land subsidence – will be caused by Hume Korean Coal Mine. My Land subsidence movement depth mm/cm/ or metres – unknown**

**My land Subsidence – cracking - movement all My House foundations,**

**My under ground pipes - water / utilities pipes, underground wires, phone lines, Septic tank underground movement – unknown, Underground pipes & septic tank damage leakage in my backyard - Smells. Sewerage. Germs. Disease ? no thanks !**

**No more backyard cricket. I have pink worms in my septic tank & frogs sometimes, what will happen to them, What will happen to me, \*What will happen to everyone\* ?**

**How will all the above NOT be affected by Hume Korean Coal Mine land subsidence?**

**EIS... land subsidence (minimum) Impact 20 mm by Hume Korean Coal.**

**How would this be true? **Highlands Aquifers are inter-connected !****

**Aquifers' Water Table reduction will cause unknown land subsidence. !**

**Underground Geology massive water loss – very quickly – dewatering, de-pressure ?**

**How, where, when would land subsidence NOT cause massive impact & damage?**

**EIS: - admits Hume Korean Coal will cause land subsidence. 20mm**

**Soils, Sub-soils, Sub terrain Rock Structures, Air pockets, Fluids fluctuating, Gravity / Weights' **HOW? where 20mm land subsidence take place. g Under the Hills, Valleys, under the Rivers, Creeks or Streams? Medway Dam?****

**Note:- all this will take place in the Sydney Drinking Water Catchment Zone.**

**Land Subsidence under rivers, creeks, streams, water courses – not good.**

**Impacts to Sydney's Drinking Water Supply for millions of people - unknown.**

**Southern Highlands Aquifers**' levels start '- estimated around ½ a metre below the earths' surface, water table depths vary all over the Southern Highlands

**Land subsidence will vary all over the entire Hume Korean Coal Mine Foot Print.**

**How will Hume Korean Coal Mine pay for all damages by the land subsidence they will caused in the months, years, decades & the future – when the mine closes?**

**Who will be monitoring the Short, medium, long term impacts** to all Septic Tanks & Sewer pipes, sewerage systems, Moss Vale sewerage treatment works pipelines. All underground utilities for all the Residents in Exeter, Berrima, Moss Vale, Sutton Forrest & all the Southern Highland Villages & Towns affected by land subsidence?

**Hume Korean Coal Mine has a massive underground footprint radius > 50 km**  
**Please investigate the Feather Mine Tunnels & Aquifers – foot print underground this is very important. !**

How will I personally go about reporting my own land subsidence damages & to who? Who will fix these problems, when & how, new for old or what? & who will pay the \$ damages bills.

Who will organise and pay for all the parts, hardware/ infrastructure / components, Tradesmen / Technicians qualified to fix all the damage done by Hume Korean Coal Mine land subsidence.

Please ask the relevant Gov't departments who maintain the telegraph poles & wires,

Telegraph Poles & Wires will fall down because of **unstable soils** - / **sink holes** will be caused by water extraction land subsidence, created by Hume Korean Coal Mine.

**NBN** – all the people who dug the trenches and installed all the NBN cables - They too will have to attend & fix the broken **NBN underground infrastructure networks** when land subsidence takes place. **How long will the NBN & Communications be down for?**

How will Hume Korean Coal Mine **compensate** all residents & business & anyone who relies on the NBN, land lines, electricity supply,

Ooops' just remembered the **Towns & Villages drinking Water Supply** - water pipes are also under the ground— ruptures / broken pipes will occur with – land subsidence – please contact the Water Authority they will be needed too.

### **Direct Negative Impact on My Life – By Hume coal mine Land Subsidence risk**

My **telephone** is a land line. I drink & use the **water supply**, I use **electricity** too. (I don't use gas, but you may have to call the **gas suppliers**– the street / village gas pipes are under the ground too.

**Major Negative Impact** Hume Korean Coal Mine **Subsidence** will have on the: -

### **Electricity Grid - the Southern Highlands & Surrounds.**

The **330 kv & 132 kv** power lines - **the staunch-ins'** - the huge metal legs' the foundations – the structures that support these **330 kv** and **132 kv power lines** are **built on land above the Aquifer. On the Coal mine foot print !**

### **Land subsidence – Underground “Hume Korean Coal Mine Footprint Zone**

What is **330 kv and 132 kv?** what does this represent?

What would happen if land subsidence caused the **staunch-ins** to **fall** and the **330 kv – LIVE** power lines fell- touched the ground - lets say for example fell on the ground over the Hume Hwy, Freeway? On people, on Homes, that would be very sad.

I don't want to think of any further re-percussions, its' to upsetting. – People would be injured or worse if these power lines fell down. Yes, in this day & age there are homes built near these power lines.

**Natural Gas Pipeline** - High Pressure Gas Pipe runs through the Coal Mine footprint. North East to South West - underground footprint & Subsidence Zone.

**Submarine cables.** – running under / through Waterways & Aquifers –

Aqua Cable casings - expose to elements crack / dry out/ metals /soils /salts / ph. /dust particles/ fatigue / water /earth movements / UV damage / expose to chemical waste ?

### **Subsidence - Massive risk - direct cause water extraction & feather tunnels.**

Where & when will Subsidence cause impacts to Utilities, Infrastructure, Farmlands, Homes & Communities ? What will happen to all the Children & Adults ?

3.2 Earthquake hits Southern Highlands. Coal mine Subsidence creates major damage.

**Or Prevention! No coal mine = Southern Highlands minimal damage to all.**

ref: - NSW Gov't Topographic maps Moss Vale 8928-1N, Canyonleigh 8928-4N

**Natural Gas Pipeline - High Pressure Gas Pipe**

**North East to South West - underground footprint & Subsidence Zone.**

**How will Hume Korean Coal build underground feather tunnels & infrastructure under or over the Natural Gas Pipeline Lawfully Safely and Risk free?**

**EIS - How many km's is the High Pressure Gas Pipe under Coal Mine footprint.**

**EIS- Under the Natural Gas Pipeline what is Easement Depth below the Pipe?**

**EIS: What, where are the Gas Pipeline Easements 3DMaps– this is very important !**

**EIS:- Building coal tunnels under a Damaged Aquifer under a Gas Pipeline- How?**

**Natural Gas high pressure Pipeline Easements - what are they for?**

**How is The Australian Eastern Seaboard Gas Pipeline affected, direct ramifications?**

**EIS – Natural Gas Pipeline – Drilling / Blasting area underground / above ground ?**

**What is Gas pipe composition? Structural resistance to concussive drilling / blasting?**

**High Pressure Gas Pipe - real depth v mapping? v easement depth ?**

**Soil/subsoil structures around pipe? Stability ? micro leaks – any friction sparking's ?**

**Earthworks - Vibrations, subsidence - Sink holes?**

**Gas pipe – age, current condition, future condition tba ? micro leaks, leaks. etc -**

**Emergency Gas shut off valves – both ends north & south – where?**

**Gas Pipeline - how many km under Farm land in Hume Korean Coal footprint?**

**How many km's feather tunnels built in Shallow depth coal seams under Gas pipe?**

**What happens \* if \* The Natural Gas Pipeline is compromised?**

**How will Hume Korean Coal avoid a catastrophic Gas explosion? Km radius?**

**EIS what are the Emergency Plans & Procedures - above & below ground for:-**

**Evacuation procedures & exit roads for the population Berrima, Exeter, Moss Vale, Villages & surrounds ? How many thousands of people directly & indirectly**

Everyone will need to know the **Evacuation procedures & exit roads**, what to do, where to go. How do they find family members & how & where to keep safe.

Who sets up Command centre, No-Go Zone, Co-ordination, Emergency services all needed. How will Hume Korean Coal avoid mass panic / casualties / loss of life?

### Natural Gas Pipeline - Direct - Specific Facts – the whole Truth.

EIS: Mining drilling equipment ruptures Natural Gas pipe y/n? Gas Cloud y/n ?

EIS: Subsidence pinched Gas Pipe, micro/ major leaks- fissures or Gas builds up y/n?

EIS: Mining explosives too close to Natural Gas pipe y/n Ka boom

How is the Natural Gas turned off, where, when & by whom? Wind direction ?

### **What happens \* if \* High pressure pipeline Gas not turned off ?**

EIS: How will Community Safety be achieved?

EIS: How can the probable “Ka Boom” be avoided ?

Or what happens if... Coal seam sparks / fire + gas pipe micro leaks = Ka boom

Please refer to annex A – Natural Gas fuel – Bushfire scenario

How many real people, families, children, workers, farms, vineyards, small & big business, factories, schools, visitors & tourists’ are in the “Ka boom” Radius Zone?

Homes, Farm Land & Aquifer will be shattered - blown to smithereens’, air, soil, water contaminated – How long will the clean up last, for how years ? Is it possible?

It is **not right** to leave this potential disaster to the next generation to clean up !

Especially when we **know** some of the **Negative Impacts** of Hume Korean Coal Mine

### **EIS – Natural Gas Pipeline - The “Ka Boom Zone**

What will be the Ka boom” km’s radius? - Above & below ground. ?

How many Thousands of people injured / may die if the Gas Pipeline is damaged?

\*If\* this coal mine goes ahead the repercussions are enormous. This is very stressful.

I’m very concerned my brain won’t think of all the relevant questions I need to ask.

How many unknown terrible consequences may occur? How will thousands of People be **Safe from Harm** \* If \* this Coal Mine goes ahead?

All the above utilities & infrastructure are **built** on land or underground in the:-

**EIS... Subsidence** footprint zone where ? Hume Korean Coal mine.



## **Tourism**

Thousands of Australian & Overseas Tourists visit the Southern Highlands.

All Ages kids, young, old & middle age people from all walks of life.

This is why every year thousands of people love, enjoy and look forward to visiting our Beautiful, Southern Highlands.

Tulip Time Thousands of Australian & Overseas tourists visiting during Springtime

Pie Time Award winning bakers produce delicious pies for visitors from everywhere

A day on the Green Concerts – 40, 000 visitors (10,000 people per concert x4 pa)

Historic Berrima Township - the Best in Australia thousands visit p.a

Open Gardens Springtime Cherry Blossoms & Tulips, Autumn colourful trees

Tour buses drive from far & wide to visit Beautiful Highlands Open Gardens.

Vineyards cellar doors & gourmet , Local Food Produces paddock to plate,

Cricket Bradman Museum, Bike riding, Walking through lovely Environs

Brigadoon- Bundanoon, Glow Worm Glen, magnificent Canyons, Bush walking,

Scenic Tourist Driving green rolling hills Highlands country roads , Art Trails, Fairs & Fates, Agricultural Shows Moss Vale show, Robertson Show,

Hillview Sculptures, Restaurants' Cafes, Tea shops, CWA cake stalls.

Weddings, Party's, Celebrations Functions, Golfing, plus many more... just visit

The Welcome Centre, Destination Southern Highlands... Mittagong

**Tourists – Gone** Jobs gone, unemployment economy massive negative Effect

**\* If\* toxic chemical mine water goes into the environment by Hume Korean Coal.**

**Tourism** – come & see all the dead trees - water ways empty- poisoned Aquifers leaching toxic coal mining chemical sludge – soils contaminated, Agriculture Gone

Gone all the open gardens- soils dead, Gone Spring flower, cherry blossoms Gone

Gone –Vineyards, Paddock to plate, local produce gone café's, restaurants' gone

Tree roots in contaminated soils - dead - all the Autumn colour - trees gone –

Closed down gardens, dead soils- all flora & fauna dead.

Gone all Tourist roads km's of dead or dying rolling hills. **Tourists – Gone.**

## **EIS Mining Techniques by Hume Korean Coal**

Feather Tunnel Coal mine – “new technique” - Not tested in Australia - unknown

Or 2<sup>nd</sup> option Long-wall mine – below ground.

Feather tunnels unknown, expensive, not financially viable,- Why would Hume Korean Coal run at a \$ loss? How long for? Why? And How will it work correctly?

How will they pay their bills? How will they pay their work force - employee wages - 300 jobs for local people? Hume Korean Coal Mine 2ST radio ad, said this will help the areas unemployment. !

EIS... Hume Korean Coal plan – Accommodation building for hundreds of their workers. Why - what for? Local workers go home after work, to their own homes.

What is the REAL jobs status. How many FLY-in FLY-out workers will fill 300 jobs. What town, city, country? be specific how many real jobs for local Residents ?

\* fly-in, fly-out do not spend money in the local Southern Highlands Economy.

EIS...Employment –Not specific on how many real Local jobs and how many jobs for overseas workers eg: on 451, 457 visa's etc. What pay rates will Hume Korean Coal pay? Korean or Australian minimum wages & conditions?

EIS... Local Job Losses Unemployment Facts for hundreds of thousands of people ? where is this data ? Direct & Indirectly local economy Income – Gone.

Local Farms / Agriculture / Vineyards rely on Clean Water bores & Clean Soils will have massive Job losses, self employed, - income gone, Aquifers soil /water toxic land –uninhabitable Homes – gone. Families gone - We all move away...

**Or ... is this what Hume Korean Coal really want ?**

Just to access coal for 20+ years then mine closes. We are left with Toxic Environs'

Aquifer, Land contamination -Toxic Chemical coal tunnels – for Generations ...

**This is not acceptable. This is not right. Should be against the Law .**

Unemployment Short, Medium, Long term unknown– repercussions' to local Families, Homes', Crops, Farmlands. Toxic Aquifers' footprint = Our homes are built on top of the Southern Highlands Aquifers , Where will we all ... 45,000 people live. ?

**Longwall mining. 2<sup>nd</sup> option EIS Mining Techniques by Hume Korean Coal**

When is Longwall mining against the Law ? Hume Korean Coal mine creating tunnels in, on, around Waterways, Aquifers, Rivers, Creeks, Streams, Dams.

How will Hume Korean Coal **not damage / drain waterways?**

**footprint for Hume Korean Coal Mine is in the Sydney Water Catchment**

**Medway Dam –Berrima local Towns drinking water supply**

How will Hume Korean Coal mine replace the water for the entire town if the dam is affected by mining operations eg vibrations land subsidence/ walls crack / seepage toxic waste runoff, water level drops / disappear or is contaminated?

**EIS ... Low impact mine. – little or no impacts to any thing or any one. –**

**Hume Korean Coal will protect water sources. - HOW ?**

**EIS... Pristine Aquifers - will take billions of litres of clean water out of Aquifers and lower water table by > 80 metres by Hume Korean Coal Mine**

**Then contaminate the Aquifers, and underground sub- terrain by re watering. will pump their toxic chemical waste water back into the Aquifers' the local creeks & rivers, underground voids / empty coal mine shafts and tunnels.**

**This is Hume Korean Coal Projects EIS !**

**This EIS is unacceptable – should be against the law.**

**It is wrong:-**

**Morally & Socially wrong to first drain Aquifers then contaminate re-water those Aquifers and waterways with Hume Korean coal mines Toxic Chemical Waste Water.**

**Aquifers' foot print radius >300 km's**

**What will be the Southern Highlands underground contamination Zone?**

**The toxic Aquifers' & toxic sludge waste underground tunnels/ voids will be **Contaminating our lands, soils, sub-soils, rivers, creeks, streams- Forever.****

**Land under our houses, land under farms under vineyards, land under local creeks, rivers, streams, Contaminated under My land under my garden.**

**My home & my life will have direct Negative Impact by the Hume Coal mine Project.**

**Southern Highlands Pristine Aquifers MUST be  
PROTECTED for all Generations for all time!**

**EIS... will place coal mines Waste water / Toxic waste chemicals & compounds  
into empty underground coal mine shafts / tunnels and voids -then seal off.**

**EIS... will transfer into the Aquifer - Toxic waste water, chemicals & compounds  
By the Hume Korean Coal mine**

Coal mine tunnels are km's long. **Aquifers'** 300 km footprint.

**How will Hume Korean Coal mine "seal off" Voids Tunnels and Aquifers?**

What are the engineering details?

**How will the "Seal off" be done?** what Materials? How will km's of empty mine  
tunnels and shafts and how will Aquifer voids be **100% Sealed off?**

**Who will monitor for leakage / structural damage / collapses failure's & how?**

By what Equipment. Who will fix it correctly

**When will we know?** - Problems first occur underground?

How will empty coal mine tunnels **be sealed to stop** Toxic Chemical Waist - Coal  
**toxic sludge leaching** into soils / sub-soils & the Aquifer above the coal tunnels?.

Heavy metals, heavy chemical compounds sink to the bottom, lighter chemicals /oils/  
contaminated water / will ½ submerge float up later, other chemicals - oils float onto  
the surface, chemical reactions will happen, unknown toxic liquids/ gas / vapours will  
fill the tunnel voids.

**Maybe the Toxic Chemical Leakage will be under MY HOUSE**

**I say NO to this mining practice.**

**The Unknown chemical cocktail will vent through the surrounding soil particles,  
cracks and fissures, eventually into the Aquifer above.**

These toxic unknowns will rise up... and up and ... CONTAMINATE My land,

My house, Our farms, Villages, Our Towns are all built on land on top of the  
Southern Highlands Aquifers. How will Hume Korean Coal pay for all Southern  
Highlands 45,000 people to relocate. When the land, soils / sub soils, Aquifers  
becomes a toxic chemical danger zone – uninhabitable? What will happen to the  
Sydney Drinking Water Catchment?

**EIS: Toxic Chemical ‘sludge’ generated by Hume Korean coal mine - What will it be? Hume Korean coal mine EIS called it re-processed water.**

What are all the chemicals & compounds at the mine site

A full itemised Chemical List please. Including known carcinogens- cause & effects to human health and food chain & water supply

How will the sludge act / re-act – when will it turn from or into a solid, a liquid or a gas. – inside the underground mine shafts / tunnels & aquifers’ voids. ?

How & when will the toxic sludge expand / contract against the inside coal tunnel walls & Aquifer voids?

How will Toxic soil act / re-act to a high pressure metal gas pipe ? corrosive yes/no ?

Earthquakes yes... quakes and tremors do & will occur in the Southern Highlands.

***How will shock waves move through*** Hume Korean coal mines, underground works, workers & empty tunnels? ½ empty feather tunnels? ½ to full toxic sludge tunnels?

Earthquake shock waves travel through solids & liquids differently.

The earths particles warm up- expand- vibrate, this will trigger chain reactions

**EIS... Feather tunnels “new” Technique? by Hume Korean Coal**

How will

Toxic waste water & feather tunnels act / re-act to earthquake shock waves?

What will be the chemical, Geo-physical and structural chain reactions?

How will Aquifers, voids, mine shafts, tunnels filled by coal mine toxic waste water, toxic chemicals & compounds waste, re-act to earthquakes & tremors ?

I’m getting a headache – Please ask the Earthquake Scientists, and Chemical Scientists and their Associates’ about this: -

I’m very intelligent a semi Genius—a full Genius knows the answers to this: -

**How will Hume Korean Coal Mine chemical waste water act /re-act to:-**

**Earthquakes shockwaves - heat / friction / particle vibrations, chemical & / or geological pressure – act / reaction to the un-known toxic chemical compounds?**

**And**

**it will all occur inside Aquifers / voids / underground tunnels / cracks / fissures fault lines- then up to the earth's surface...**

**And up Under MY HOUSE ... !**

**EIS... Aquifer / groundwater table lowered & re-watered by > 80 metres**

**Does this mean 80 metres of Aquifer Voids Hume Korean Coal will be using for all their toxic chemical waste water dumping?**

**Aquifers are not Sewers, Toxic Waste Water Garbage Dumps for Hume Coal !**

My Healthy Environs would change forever:-

Aquifers = Pristine Southern Highlands Aquifers.

**I believe all the Aquifers are inter-connected** , lower the water table of one Aquifer and surrounding Aquifers also affected (gravity & de-pressure) all water levels drop. Aquifers estimated 300km water ways drains into Sydney drinking water catchment.

How will Hume Korean Coal build a mine UNDER a pristine Aquifer and not damage or pollute or contaminate the Aquifer & Environs?

Who will be INDEPENDENTLY monitoring ,

How will it be done, When will it be done - day/month/years.

How is it Geologically possible. Where – what locations, - What depths.

Contamination concentrations - particulates. Who monitors/takes samples/ create the real stats/ data/ analysis. And for public display.

I'm highly intelligent and this is way past my field of expertise. (how will the average Adult/Child living in the Southern Highlands understand the ramifications ?)

**What happens when the Aquifer is contaminated?**

How specifically is a pristine Aquifer “cleaned up”

**Drilling a mine under an Aquifer must cause contamination?**

EIS...Hume Korean Coal state they will not do any damage to Aquifers, they will put toxic chemical waste-water back into the Aquifer & coal mine tunnels.

EIS... water table lower by > 80 Metres.

**Massive Water table reduction= Soil Moisture Depletion,**

Impact - Massive soil dry outs / dust bowels, ripple affects their will be - no farming, massive Negative impact surrounding agriculture lands. Dead trees = erosion.

Drier sub-soils = dead Zones.

**Dried out soils** – Dead worms, All flora & fauna dead, Dead microbes, Land - Dead.  
How many km's of dead land zones ?

**EIS... Water trucks offered by Hume Korean Coal**

Soil moisture depletion km's land - how many water trucks will be required? – For how many years & where will the water come from - all the local Aquifers & Rivers will be empty - Hume coal Mine will use & contaminate all water environs...

Water Licence -

How many water Licences will the Coal mine require ?

How may do they have?

How much money \$ will Hume Korean Coal pay for water ?

Who monitors the water usage? dd/mm/yy.

What happens if too much Aquifer water taken out than the water Licence allows?

Who would know?

When will Hume Korean coal operate the mine without all the water rights?

After the Coal Mine starts operating – It will be Too late to stop illegal water extraction - Where will all water licences come from.

Breaking the Law penalties. Fines should/must be in the \$Millions' of dollars AND **MUST RETURN all illegal water taken by the Coal Mine. Clean water !**

**EIS ... 70 years rain will recharge the Aquifer. True or False**

**Exactly how much water will Hume Korean Coal Mine take out of the Sydney drinking water catchment. This is the Highlands Aquifers, Rivers Creeks & Streams.**

How are we to believe rain fall predictions. Where did Hume Korean Coal get their rain fall figures from? A crystal ball. When does Hume Korean Coal say the next drought will start? **Before or after they extract all Our Groundwater**\*

We are in drought now. Our Environment needs Water, People need water to drink.

**Drier Soils, Sub Soils + Drought = Environmental chain reaction. Radius Environmental impact Coal mine footprint just expanded to? how many kms - possible > 300 kms .**

**EIS - Coal stock piles water usage above ground -water spraying sprinklers over Coal Stock piles 8 storeys' high 1 km long**

Coal dust winds >100 km per hr, blows coal dust all over the Southern Highlands. Prevailing Westerly winds – yearly cycle occurs August –

**Coal dust winds .**

Windy weather starts in March and lasts until November in some years.

Wind speeds reaching >100 km per hour. How will Hume Korean Coal stop the coal dust blowing all over the Southern Highlands in strong winds. ?

**EIS... Water sprinklers over 8 storey coal stock piles 1 km in length.**

How will this achieve results in prolong & gusty wind speeds. Water usage/runoff ?

**Air bourn Coal Dust sediments** - up my nose, in my mouth, inside my lungs, on clothes drying on my washing line, in my water troughs, on my plants, dust all over my vegetables, gardens, roofs- rain water collection tanks – yuk.... no thanks.

**Coal Trains & Trucks** - Truck movements massive increase damaging road surfaces who pays? . Heavy vehicle diesel trucks? double bogies? driving through our towns rumbling past our Homes. Peace & quiet living gone, sleeping – not.

Very noisy Coal Trains and Trucks, unacceptable Noise, diesel fumes/dust pollution.

Breathing in coal dust & greasy diesel fumes, inside my home, on my curtains, - inside my lungs yak. All windows & doors in my own home – closed forever ?

I choose to breath clean country air, not diesel fumes from trucks everyday and not **coal dust winds everyday until I Die.**



### **Coal train wagons: -**

Hume Korean Coal representative Ben Fitsimmons said on the local 2ST radio station. they will cover all the coal train wagons. What does the EIS say ?

What materials will the coal train wagon coverings be made out of. How will it be permanent or temporary, how will it be UV treated, how will it be non- perishable, how will it expand/contract in hot / cold weather conditions– Highlands climate winter has ice –frosts even occasional snow.

Who will check that the Coal train wagon coverings must do what they say they will do. Cover & contain the coal & coal dust.

### **Hume Korean Coal Mine company policies & procedures.**

I want to ask these questions, I only need limited answers, this makes me sad.

**Public safety**, Hume Korean Coal Mine security and the Bad guys & the Crazy bad guys in the world we live in today.

Please forward/follow through with the appropriate Gov't departments.

**I want to know are we safe - all 45,000 people in the Southern Highlands: - are we safe from harm.**

The Security – of all Hume Korean Coal Mine explosives / dynamite what they will use, will it be 100% Secure ?.

I would like you to please ask the Australian Federal Police & ASIO to be included in and take full responsibility for the Security at the Hume Korean Coal Mine.

Would this be possible, \* if \* the Coal Mine gets approved?

I do not want to know the security details. I believe the Security details should not be in the public domain – (don't tell the Bad guys anything).

I do want to know we are safe from harm. I believe it would not be fair on the local Police to have the responsibility.

I say **No** to the entire Hume Coal Project.

**It's wrong for the Southern Highlands.**

I believe Hume Korean Coal **EIS** is not telling the whole Truth – Miss-leading confusing, ½ doubled up information, **EIS..** – 13 Books –

(13 telephone book sizes – re the Sydney yellow & white pages thickness ) - wow that's a lot to ask of the general public. Lucky for me, my brain ENJoys Research.

Hume Coal was miss-leading the Public on radio & by their \$ donations – I believe.

To build a Coal mine under the Southern Highland Aquifers' –deplete its water resource, then pump toxic chemical sludge into the Aquifers, coal mine tunnel/shafts & water courses is wrong.

**Toxic chemical mine water goes into the environment forever** by the Hume Korean Coal Mine

Hume Korean Coal **will** lower the water table by > 80 metres for ...km's

Contaminate / create toxic Aquifers voids & Soil/ Sub-soils for ...? km's,

Destroy by water loss - deprive farmers, agriculture, land owners, destroy private gardens, my very own ¼ acre home & garden, yes my Aussi Dream.

All plants & animals living on land above & around the coal mine footprint & beyond will be unfit for Human habitation or consumption.

**All** will be rendered worthless. Un-inhabitable, un-fit, hazardous to Human Health !

**Southern Highlands dairy cows – milk.**

Would *you* **drink** the milk from the cows, **eating** the grass, **growing** in the soil- in the Southern Highlands **Aquifer** –

with a Hume Korean Coal mine tunnel **under the soil?**

Please keep in mind-

(1) the Cows drink water from the creek –

the same creek Hume Korean Coal mine will use for their toxic chemical waste water outlets & chemical coal washing drainage.

(2) Aquifer's water contaminated by Coal Mine toxic chemical sludge re-watering.

(3) Soil has - Toxic chemicals –Solids / liquids / gas toxic vapours coal sludge  
waste filled coal mine tunnels in the soil under the grass.

Unknown toxic chemicals - toxic reactions – unknown. Leaching probable.

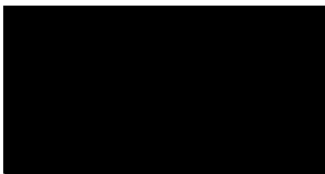
(4) Food chain contamination 100% probable.

(5) Cows milk comes from cows, eating Grass growing in contaminated soil. –  
would *you* still want to drink the milk ?

How will Hume Korean Coal - Mine under the Southern Highlands Aquifers and  
have no Environmental Impact ?

Thank you for reading my letter,

Kind Regards



J Smiles

# my Home - my Land - my Garden

Nov. 2019.



(Fig 1.)

Natural Gas Fuel - Bushfire scenario by J. Smiles

2 March 2019

**Natural Gas Pipeline - \* Warning \* On a Hot Dry Day, sometime in the future**

HOW would / could a Gas Pipeline Fire be put out? Gas leaks, ignites.

How do you turn off “High Pressure” Pipeline Gas ? Where, When & by Whom ?  
How long would it burn for ? When will the pipeline gas be turned off. ?

\*\*\* **Emergency Alert** \*\*\*

**Gas Pipeline Explosion - Fireball Crater - Golden Vale Road Sutton Forest NSW**

**Oldbury road - Illawarra Highway > 1km Explosion Zone**

Emergency Alert... Sirens? Surrounding topography... Hot & Dry

Natural Gas Bush fire, Wild fire, Catastrophic event !

Fire front... Hot - Dry Gustily Winds – Current wind Easterly direction.

State Forest on fire – out of control, Fire traveling fast ... kms’ per hour Gale Winds.

Toxic Gas cloud, bushfire, smoke, wind currents erratic – coming from all directions.

Ground Zero Gas Fire Ball no.1 - Explosion Catastrophic. Sutton Forest >1km radius  
Mega Crater Natural Gas pipeline both ends- north & south on fire - situation critical !

South pipe end 2nd Gas Fire Ball - Sally’s Corner road & Hume Hwy Freeway –

Petrol Stations x2, Trucks- double bogies, School Buses, Cars, multiple lane pile ups  
caravans x2 Massive carnage entire freeway all lanes engulfed. - situation critical !

3rd Gas Fire Ball... moves north vaporises Moss Vale Gas Works. ( God help us )

Whites creek vaporized. Stony creek on fire.

Evacuation ordered for all towns - Moss Vale, Exeter , New Berrima & Berrima,  
Canyonleigh all Villages & Surrounds... Code RED.

Safety Zones: Bundanoon sports field and Wingecarribee Reservoir.

Radiant Heat Wave:– Exeter, Werai, Mt Broughton, Gingenbullen Mtn, Moss Vale

Concussion Wave:- Hillview – Bald Hill — Blakes Hill, casualties – unknown  
Bong Bong – Cherry Tree Hill - Illawarra Highway - Hume Highway - unknown

Emergency Vehicles - Illawarra, Hume Highways, Freeway roads closed.

Helicopters: - smoke, gas cloud, visibility zero. Rescue Evac Choppers unable to land.

How & where will hundreds, even thousands of people go, act / react to this

Gas pipeline explosion, Gas cloud and Catastrophic bush fire event. ?

Damaged roads, vehicle access in-out surrounded by bush - some engulfed in flames!

Medway Rivulet – 2km water evaporated in explosion. (was low due to coal mining.)

Wells creek km's on fire, trees dry dead vegetation (water drained by coal mining)

Coal tunnels “feathers flew away. Underground Coal seams on fire !

Wind direction changed now South Easterly, winds fanning flames racing along Oldbury & Stoney creek beds. Fires out of control. New Berrima on Alert.

Wind fire now racing up Medway Rivulet towards Mereworth road, Embers flying every where. catching a light the dry vegetation, trees busting into flames, wind fire roaring at ...km per hour.

Strong winds created a fire Tornado.

Fire front now racing over hills towards Coal Mine headquarters - Coal stock pile, Dry Coal stock pile 8 storey's high one km long. Sprinklers not working - no water coming out. Coal pile on fire ! no water unable to extinguish. Evacuate... HOT Zone

Western canyons now ablaze, wind fire tunnel, roaring through dried vegetation along the dead river beds, through valleys- racing up slopes 2<sup>nd</sup> fire front.

Wild fire Hurricane force winds - 3<sup>rd</sup> fire front Top ridge to the south west.

Comfort Hill rest area Dunny explosion.

Sirens screeching - Evacuate village Canyonleigh – All residents – unable to evacuate one road in/out – road closed Fire front accelerating, ... we need water now !

Main Water Pipeline underground within Blast Zone. Bursts ! Water Pipeline ruptured- damaged in gas explosion – no mains water – RFS – unable to put out the fire. No water, no access. RFS unable to attend – entire area unsafe- code RED.

Emergency Call all-band widths: - “Queen Neptune just sighted “Elvis” flying over Bundanoon Dam” Hundreds of people evacuated to Bundanoon sports field, stood in formation and spelled out a human thank you, as Elvis flew by.

Thousands of people evacuated to the Swamps around Wingecarribee Reservoir.

Hundreds walking, others running dangerously across the 1km wall to safety. Left side the Valley flames licking at their heels, dam water just on their right.

“ Daisy Bell ” swooped over the Swamps flew down over Wingecarribee Reservoir sucking up water, filling her large udder belly, looking more like a giant dragon fly.

Thousands of Highlanders waving & cheering to Daisy Bell ...

The Flying Water Tankers, - bushfire put-err- out err ex-strawdinaires saved the day!  
Saved us all and the Southern Highlands. !

Question? The above true or false / possible or probable?

What extinguishes High Pressure Gas Pipeline fires? How do you get A team in?

How would/could a Flying Water Tanker put out a Gas Pipeline fire ?

What happens when Gas NOT turned off. Pipe broken both ends.

Ka boom... my house ¼ acre land has gas pipes under my front lawn – I don't use gas.  
Where will I live Mars or up in Heaven. ?

On a lighter note:- All new - Lake Queen Neptune – Sutton Forest.

The Southern Highlands Aquifers saved everyone – the RFS, the Ambulance and Police Rescue all the Emergency First Responders - saved from Gas Fire Ball no. 4!

The Gas pipe explosion split the Hawksbury Sandstone Aquifer in two, a new lake was born: \* The Queen Neptune \*

Aquifers waters sprayed out like fountains thousands of metres in the air, all over Ground Zero. Extinguishing all the Smoke, Gas Cloud and flames, to the North, South, East & West, saving Sutton Forest, and all the towns & Villages. !

Ps. Swimming not allowed - the lake is filled with Bubbles – Natural Gas Bubbles.

Lake Queen Neptune Gas pipeline repairs eta? Eastern Seaboard pipeline - still down!

Water = Life. \* If \* The EIS data is incorrect, wrong, fake or just smoke & mirrors, by Hume Coal project - what will happen to the Southern Highlands ?

For many years, our Community & My Self have been working very hard, for the Southern Highlands - EIS Truth... Thank you for taking the time to read my letter.

