

Subject: Re: Review quotes for accuracy please

> To: csmyers77@hotmail.com

> From: Vann.Bradley@epamail.epa.gov

> Date: Fri, 10 Jun 2011 15:51:45 -0500

>

> •Brad Vann, Environmental Scientist, EPA, Region 7

> "Its a lot easier to put chemicals in the ground than to take them out
> of the ground or groundwater"

> •"I would also be concerned if I had a drinking water well down-gradient
> from any petroleum or chemical source, and would want to know
> specifically what safety protocols are being employed to ensure that a
> release has not occurred, or if it did, it would not impact my water
> supply (i.e., leak preventers, inspection frequency, routine testing,
> installation of sentinel wells, leak response protocols, etc.)."

> "Petroleum is a mixture of many of organic compounds"

> •Benzene:

> Is a known human carcinogenic.

> •Benzene is a degradation chemical from crude oil. In pure form it is
> not soluble with water but solubility can occur with mixtures of other
> chemicals and at dilute concentrations. These dilute concentrations do
> mix with the water sufficiently to exceed safe drinking water limits.

> •"The safe drinking water limit (Maximum Contaminant Level or MCL) for
> Benzene in drinking water is 5 parts per billion"

> •Because this is such a minute amount, "you can't smell, taste or see it
> (below odor and taste threshold). It requires laboratory analysis to
> detect at these concentrations. Therefore, it would be possible to
> drink dilute Benzene above the MCL and not know.

>

> Bradley Vann - RPM

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> From: Cindy Myers <csmyers77@hotmail.com>

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> To: Bradley Vann/R7/USEPA/US@EPA

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> Date: 06/10/2011 02:56 PM

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> Subject: Review quotes for accuracy please

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- > •Brian Vann, EPA, Region 7
- > "Lot easier to put in the ground than to take out of the ground"
- > •"I would be concerned also if I had a well down-gradient from a
- > chemical source"
- > •Benzene:
- > Known carcinogenic
- > •A degree of benzene from crude oil is soluble in water, mix with the
- > water.
- > •"Allowable limit in drinking water is 5 parts per billion"
- > •Because this is such a minute amount, "you can't smell, taste or see
- > it." Analysis required to detect. Would be possible that you would
- > drink and not know.