

Subject: TPP QUESTIONS**From:** "Howell, Debra LRB" <Debra.Howell@lrb01.usace.army.mil>**Date:** Thu, 7 Mar 2002 06:20:40 -0800

To: "Howell, Debra LRB" <Debra.Howell@lrb01.usace.army.mil>, "Foley, Mary K LRB" <Mary.K.Foley@lrb01.usace.army.mil>, "Warminski, Alan S NAB02" <Alan.S.Warminski@nab02.usace.army.mil>, "Rak, Andrew NAB02" <Andrew.Rak@nab02.usace.army.mil>, "Becky Zayatz" <rzayatz@wm.com>, "Bob Fay - ISSI LOOW" <rtfay@hiwaay.net>, "Basham, Charles E NAB02" <Charles.E.Basham@nab02.usace.army.mil>, "Boglione, Fredrick L LRB" <Fredrick.L.Boglione@lrb01.usace.army.mil>, "Novotny, Heidi L NWD02" <Heidi.L.Novotny@nwd02.usace.army.mil>, "Jean Gallagher - USATCES LOOW" <gallagher@dac-emh2.army.mil>, "Keil, Karen G LRB" <Karen.G.Keil@lrb01.usace.army.mil>, "Kent Johnson" <kjohnso@gw.dec.state.ny.us>, "PDSHOWELL@aol.com" <PDSHOWELL@aol.com>, "Mijares, Policarpio G NAB02" <Policarpio.G.Mijares@nab02.usace.army.mil>, "Livermore, Raymond R NAB02" <Raymond.R.Livermore@nab02.usace.army.mil>, "Sawyer, Scott P LRB" <Scott.P.Sawyer@lrb01.usace.army.mil>, "Lal, Sesh P NAB02" <Sesh.P.Lal@nab02.usace.army.mil>, "Anderson, Tara NAB02" <Tara.Anderson@nab02.usace.army.mil>, "Shaw, Wayne L HNC" <Wayne.L.Shaw@hnd01.usace.army.mil>, "Kozminski, Alfred C LRB" <Alfred.C.Kozminski@lrb01.usace.army.mil>, "Leggett, Harold J III LRB" <Harold.J.Leggett.III@lrb01.usace.army.mil>, "Finley, Liza NAB02" <Liza.Finley@nab02.usace.army.mil>

Below is a list of questions that we would like to address at the TPP next week. I need everyone to put on their thinking caps and be prepared to discuss the questions below. If anyone has other questions, comments, etc. please add on to the list.

Thanks,
Debbie

Questions To Be Addressed at the TPP

1. We should prepare a risk assessment/risk control table for this project.
2. Safety considerations for working with TNT.
3. Will we need to do an ESS for any treatment option (i.e. biodeg)?
4. What are DEC criteria for TNT in soil, sediment, groundwater, and surface water?
5. How should we treat buildings, foundations, soils, pipe/concrete, etc. that may be contaminated with TNT?
6. Can we get free money for a pilot study?
7. Who will sign a ROD for this site?
8. Is "mixed" waste (chemical contamination and TNT contamination) eligible for removal under OEW project?

9. How explosive is the stuff we are finding on site? Is there a real risk of injury???

The percent TNT found onsite has ranged from below 10% to as high as 99.5% and has been found in all shapes and sizes.

10. What methods did they use to collect and analyze the TNT samples during RI by Acres, Radian's work, EA RI, Severson's work? (analytical method and collection method) Was an explosive expert present during RI sampling (either Acres or EA?)
11. Why didn't the original INPR have an OEW project?
12. Have we definitely established that the EE/CA for this IRA was sent out for public review?
13. Why wasn't an Action Memorandum prepared for the TNT IRA?
14. Have we ever checked any of the other lines on site for TNT? Have we ever checked to see if the sewer line, which ran to the river, had TNT in it?
15. Were WWTP lines ever sampled for RAD?
16. How can we design our sampling program to make sure we find any hotspots of TNT?
17. Have we rechecked test pit areas where they had liquid spills for crystals?
Not to my knowledge unless EA did this past summer.
18. What sort of safety precautions should contractors (us or NFSS, or CWM) use when working near possible TNT contamination?
19. If we have chemical waste mixed with TNT waste is biotreatment still feasible?
20. Is any GW near the pipe contaminated?
21. The history reports state that the TNT lines were flushed with caustic solution during closure of the TNT plan. What would this do to TNT (chemical reactions, affect stability, etc)?
22. What was the acid waste line used for?
23. Has the public ever had ANY input or comments on what we are doing with the TNT on site? (We should include potential public relations disasters in our risk assessment/risk control document)
24. Do we screen TNT soil for RAD? Should we sample for RAD prior to disposal?
25. We should talk about the criteria used when developing a ROD to see which solution best meets each criteria.
26. Do we currently have enough information to do a risk assessment? Is TNT line considered in current SOW for risk screen (being done in-house)?
27. General schedule and cost of our plan of action.

28. Acquisition plan
29. Value engineering study necessary????
30. Have we done an adequate RI on this area (as described in CERCLA)?
31. We should compile lessons learned from IRAs
32. What are the key assumptions and constraints we are making and using for this project?
33. Can Karen do a preliminary risk assessment based on our RI and IRA sample results?
34. What is toxicity of TNT (health and eco)?

TPP QUESTIONS

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~~Handwritten signature~~ Just Got this one
Comments

Handwritten notes: EAT with, Harold, 3/7/02

Below is a list of questions that we would like to address at the TPP next week. I need everyone to put on their thinking caps and be prepared to discuss the questions below. If anyone has other questions, comments, etc. please add on to the list.

Thanks,
Debbie

Bob, MY COMMENTS

~~Handwritten signature~~
8 MAR 02

Probably in the solution of RBK to send to MK

Questions To Be Addressed at the TPP

1. We should prepare a risk assessment/risk control table for this project. *Shawn stoppers send to MK*
2. Safety considerations for working with TNT. *LEVEL C PPE, NON SPARKING TOOLS, DECOR.*
3. Will we need to do an ESS for any treatment option (i.e. biodeg)? *YES* **HOW CAN YOU SETTLE ON A TREATMENT OPTION WHEN YOU DON'T KNOW HOW MUCH & WHERE IT IS LOCATED?**
4. What are DEC criteria for TNT in soil, sediment, groundwater, and surface water?
5. How should we treat buildings, foundations, soils, pipe/concrete, etc. that may be contaminated with TNT? *FIRST, UNDERSTAND THAT TNT WAS IN A LIQUID FORM AND COULD HAVE MIGATED IN, UNDER AND AROUND STRUCTURE. IE CHEMICAL LIFT STATION.*
6. Can we get free money for a pilot study?
7. Who will sign a ROD for this site?
8. Is "mixed" waste (chemical contamination and TNT contamination) eligible for removal under OEW project? *YES, BECAUSE OVER TIME THE TNT HAS BEEN TRANSFORMED INTO SOLID (CRYSTALLINE) PRODUCT. SEE ~~THE~~ USARMY REPORT. THIS WILL ACCOUNT FOR THE DIFFERENT LAYERS OF PRODUCT IN THE PIPE. BOB, REMEMBER, SOME OF THE TNT WERE DOWN SIZED WAS BETWEEN 2 1/2" TO 3" THICK WITH LAYERS.*

9. How explosive is the stuff we are finding on site? Is there a real risk of injury???

The percent TNT found onsite has ranged from below 10% to as high as 99.5% and has been found in all shapes and sizes. *THE SOLID TNT PRODUCT IS 99.5% IN SOME AREAS. WHY KEEP ASKING THE SAME QUESTION WHEN THIS IS MILITARY GRADE*

10. What methods did they use to collect and analyze the TNT samples during RI by Acres, Radier's work, EA RI, Severson's work? (analytical method and collection method) Was an explosive expert present during RI sampling (either Acres or EA?) *CREL*
11. Why didn't the original INPR have an OEW project? *GOOD QUESTION BOB. IT WAS A MANUFACTURING PLANT.*
12. Have we definitely established that the EE/CA for this IRA was sent out for public review?
13. Why wasn't an Action Memorandum prepared for the TNT IRA?
14. Have we ever checked any of the other lines on site for TNT? Have we ever checked to see if the sewer line, which ran to the river, had TNT in it? *ACCORDING TO THE HISTORICAL DATA, NO OR VERY LIMITED AT SOME LOCATIONS, WE WERE NEVER ASKED TO CHECK THE CHEMICAL WASTE LINE THAT SEVIERSON REPAIRED, EVEN WHEN IT CROSSED THE TNT LINES.* *WHI' BE CHECKED*
15. Were WWTP lines ever sampled for RAD? *NO ACCORDING TO HISTORICAL DATA PROVIDED, NO EXPLOSIVE PERSONNEL WERE ON SITE. BOB, THERE COULD BE LARGE CHUNKS OF TNT IN AND AROUND PROCESSING EQUIP.*
16. How can we design our sampling program to make sure we find any hotspots of TNT? *TAKE EACH AREA STEP BY STEP CHECK THE SURFACE + TEST AT BELOW SURFACE. CHECK ALL HOLDING TANKS + DRAINAGE*
17. Have we rechecked test pit areas where they had liquid spills for crystals? *NO ACCORDING TO HISTORICAL DATA PROVIDED, NO EXPLOSIVE PERSONNEL WERE ON SITE. BOB, THERE COULD BE LARGE CHUNKS OF TNT IN AND AROUND PROCESSING EQUIP.*
18. What sort of safety precautions should contractors (us or NFSS, or CWM) use when working near possible TNT contamination? *AVOID THE AREAS CONTAINING TNT FOR THE ENTIRE SITE. NO VISITED BY RE EXPL. PERSONNEL.*
19. If we have chemical waste mixed with TNT waste is biotreatment still feasible? *NO, IT WILL TAKE DIFFERENT BIO MED, FOR EXAM. SIMPLE ONE MIGHT KILL THE OTHER.*
20. Is any GW near the pipe contaminated?
21. The history reports state that the TNT lines were flushed with caustic solution during closure of the TNT plan. What would this do to TNT (chemical reactions, affect stability, etc)? *IT STATES THAT IT DID NOTHING! AND THAT IT MAY HAVE CONCRG.*
22. What was the acid waste line used for? *IN MANY AREAS.*
23. Has the public ever had ANY input or comments on what we are doing with the TNT on site? (We should include potential public relations disasters in our risk assessment/risk control document)
24. Do we screen TNT soil for RAD? Should we sample for RAD prior to disposal?
25. We should talk about the criteria used when developing a ROD to see which solution best meets each criteria.
26. Do we currently have enough information to do a risk assessment? Is TNT line considered in current SOW for risk screen (being done in-house)? *NOT @ JUST THE TNT LINE, ONE LOCATION DOESN'T ILLUSTRATE A TRUE PICTURE FOR ALL AREAS, ESPECIALLY WITH TNT.*
27. General schedule and cost of our plan of action.

TPP QUESTIONS

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- 28. Acquisition plan
- 29. Value engineering study necessary????
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- 31. We should compile lessons learned from IRAs
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NO! EXPLOSIVES PERSONNEL
 NOT ON SITE TO VISUALLY
 INSPECT ALL AREAS.

SEE MSDS

Bob, THE BIO DEGR. METHODS ONLY WORK EFFECT.
 WHEN YOU HAVE A LARGE KNOWN CONCRETE (HOT SPOTS)
 (HOT SPOTS) I DON'T THINK THIS METHOD WILL WORK
 ON THE INFORMATION CONCLUDED DURING THE IRA.

Bob, I HOPE THESE PEOPLE DON'T THINK THAT
 YOU CAN TAKE TNT PRODUCT + TNT CONTAMINATED
 DEBRIS, BURY IT AND USED THE BIO-METHOD.
 RAW TNT "YES", CONTAMINATED DEBRIS NO! *Carl*

Bob, I RECOMMEND THAT ALL AREAS BE CHECKED
 USING EXPLOSIVE PERSONNEL TO VISUALLY AND
 ANALYTICALLY VERIFY THE PRESENCE AND CONCENTR.
 OF TNT ON SITE.

ALL OF THE HANDLING EQUIPMENT MUST
 BE CHECK. INCLUDING ALL WASTE WATER
 (WWL) LINES. BECAUSE IN THE REPORT IT STATES
 IN MANY AREAS ~~THE~~ WWL ^{WERE} INTERCONNECTED.

- BLENDING THE TNT PRODUCT RECOVERED
 IS A VERY SAFE AND EFFECTIVE METHOD.
- POWDER MAKING IS GREAT WHEN USED PROPERLY.
 I HONESTLY DON'T TRUST ANYTHING THAT WAS
 COMPLETED IN THE PAST. THE US ARMY ~~HAD~~ ^{HAD} A
~~REASON~~ ^{REASON} WHY THEY LEFT THIS PROJECT DURING
 THEIR CLEANUP ATTEMPT. TOO MUCH AND ^{WHERE} ~~WHERE~~
 IS IT. *Jerry*