



TETRA TECH NUS, INC.

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December 11, 1998

Project Number 5278

Mr. James Shafer
Remedial Project Manager
Northern Division, Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop 82
Lester, Pennsylvania 19113

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order No. 0218

Subject: Transmittal of Meeting Minutes - OFFTA Scoping Session November 10, 1998
Naval Station - Newport, Newport Rhode Island

Dear Mr. Shafer:

On November 10, 1998, a meeting was held at Building 1, Naval Station Newport to discuss surface soil sampling at the Old Fire Fighting Training Area (OFFTA). Minutes taken at this meeting are provided as Attachment A., a copy of the drawing showing sampling stations that were agreed to is presented as Attachment B, and the attendance sheet is provided as Attachment C.

If you have any questions regarding this material, please do not hesitate to contact me.

Very truly yours,

A handwritten signature in cursive script that reads "Diane K. McKenna".

Diane K. McKenna
Project Manager

DM/

attachment

- c: M. Griffin, NETC (w/encl. - 4)
- K. Keckler, USEPA (w/encl. - 3)
- P. Kulpa, RIDEM (w/encl. - 4)
- J. Stump, Gannett Fleming (w/encl. - 2)
- B. Timm, ATSDR (w/encl. - 1)
- D. Egan, TAG (w/encl. - 1)
- J. Trepanowski/G. Glenn, B&RE (w/encl. - 1)
- File 5278-3.2 (w/o encl.)

**ATTACHMENT A
MINUTES OF THE MEETING
SURFACE SOIL SAMPLING AND HUMAN HEALTH RISK ASSESSMENT
SITE 09 - OFFTA
Naval Station Newport, Building 1
November 10, 1998**

Meeting Attendees:

Jim Shafer, U.S. Navy Northern Division
David Barclift, U.S. Navy Northern Division
Todd Bober, U.S. Navy Northern Division
Melissa Griffin, NETC Newport PWD (Environmental)
Stephen Parker, Tetra Tech NUS Inc.
Diane McKenna, Tetra Tech NUS Inc.
Kymberlee Keckler, U.S. Environmental Protection Agency
Cynthia Hanna, U.S. Environmental Protection Agency
Jennifer Stump, Gannett Fleming
Peter Golonka, Gannett Fleming
Paul Kulpa, Rhode Island Department of Environmental Management
Beth Timm, ATSDR

Meeting Convened at 9:00 AM

Jim Shafer (U.S. Navy, Northern Division) opened the meeting, and there were introductions around the table. Mr. Shafer indicated that Tom Griffin requested that surface samples be collected at the site for human health risk assessment on behalf of Senator Chafee. It was clarified that this immediate sampling effort would be performed prior to November 20, and RI data gaps for subsurface soil would be considered soon after for work in the spring of '99.

K. Keckler asked what is the purpose of the proposed sampling: to assess risk to determine whether the park can be re-opened or to determine risk for CERCLA purposes? She noted that the existing risk assessment concludes that there is actionable risk under CERCLA, but more samples would be needed to prove that the site was safe for public use. The Navy agreed that there may be actionable risk for subsurface soils under a construction worker scenario, but did not agree that exposure to surface soil resulted in actionable risk.

J. Shafer indicated that he was not sure whether the Activity's goal is to re-open the park soon in light of all the negative publicity. He mentioned that the Navy, EPA and the State should hold discussions with Naval Station - Newport regarding this issue.

K. Keckler and P. Kulpa noted that since the Draft Final RI Report was submitted (TRC, 1994), the state has adopted new remediation regulations. The new regulations include new soil exposure rules that future actions at the site will have to address.

K. Keckler also noted that the revised risk assessment for the recreational scenario will have to evaluate the additive risk for exposure to surface soil and shoreline sediment. The rationale for this is that children playing on the site have unrestricted access to the shoreline and it is reasonable to expect that a child could be exposed to both the surface soil at the park and the sediment along the shoreline. The Navy stated that they believe the duration of time spent by persons at the shoreline

was negligible compared to that spent on the other portions of the site. The Navy also stated that access to the shoreline is not permitted by the Navy Police.

D. McKenna provided a brief overview of the data that was collected in 1990 and 1994 by TRC Corp. for the first Remedial Investigation and then described the Navy plan for sample collection.

The new plan will:

1. resample two small areas where lead was found in surface soil at elevated levels,
2. collect samples in potential high exposure areas (baseball field and playgrounds), and
3. fill in spatial gaps of surface soil samples perceived by the oversight agencies.

There were general discussions about data collected previously, as well as data collected as a part of the offshore investigations:

- There was concern about phase 1 soil sampling for VOCs by TRC (1990). The Navy then presented a copy of the Phase 2 report which demonstrated that VOC sampling was accomplished using approved methods.
- It was agreed that for consistency, samples would be collected for TCL VOCs, TCL SVOCs (excluding pesticides and PCBs) and TAL Metals at all stations.
- EPA and RIDEM both requested that additional samples be collected from the shoreline intertidal area. EPA noted that the additional samples were needed because 1) the shoreline sediment samples collected by TRC were not acceptable for VOCs because they were composite samples and 2) the samples collected by TTNUS for the ecological risk assessment (ERA) were not analyzed for the full suite of HHRA contaminants. RIDEM noted that the TTNUS ERA samples were too far from the shoreline to be representative of the soils kids would be exposed to when playing along the shore.

There was extensive discussion about background levels of contaminants in the soils at the base, and how this is already documented. There was extensive discussion regarding arsenic at Aquidneck Island. It was agreed that a cleanup focusing on arsenic would not be appropriate without an assessment of background conditions, but it was not clear how background would be determined for this site. The discussion was tabled until the data was received and the parties could consider options for the risk assessment and background studies. P. Kulpa agreed to provide EPA with reference material that the State used to derive the Direct Exposure Criteria for arsenic.

There was extensive discussion about the sampling interval that would be targeted for the proposed samples. B. Timm stated that ATSDR prefers to use samples from the 0-3 inch interval for health effects studies on contaminants in surface soil. K. Keckler stated that EPA considers the 0-1.0 foot interval as surface soil for CERCLA risk assessments. P. Kulpa stated that RIDEM considers the 0-2 foot interval as surface soil. Past surface soil investigations at the site have included samples from 0-0.25 ft, 0-0.5 ft, 0.5-1.0 ft, and 0-1.0 ft. That Navy stated that they did not feel the 0-2 foot interval was appropriate to measure surface soil exposure. The Navy proposed that the new samples be collected from the 0-1 foot sample interval to be consistent with previous sampling and to comply with EPA CERCLA policy (as agreed in the FFA). RIDEM and ATSDR both stated that they could not agree that this was an appropriate interval to use for recreational exposure to surface soil. B. Timm noted that because ATSDR is not a regulatory agency, they can only state their preference on this matter. J. Shafer indicated that this issue be elevated to another level within RIDEM, and P. Kulpa agreed. P. Kulpa also agreed to send C. Hanna (USEPA) information on the technical basis for the 0-2 foot interval.

At approximately noon, the group toured the site to confirm conversations and assumptions made in the meeting. One additional sample station was added near the back fence of the ball field where soils were exposed (this sample is included in the 5 stations proposed by EPA in No. 2 above).

The following agreements were made for the record:

1. Agreed to the 24 locations proposed by TTNUS (identified as 300 series samples), with the following modifications:
 - stations 302 and 303 shifted slightly to align with the infield of the baseball field,
 - stations 316, 317, 318, and 319, within the fenced toddler play-area, shifted so that three samples are collected beneath the playground equipment and the fourth sample is collected from the sandy area between the playground structures.
2. Agreed to five additional stations proposed by USEPA
3. Agreed to two additional stations proposed by RIDEM
4. Agreed to five additional stations at the shoreline (in the intertidal zone) proposed by RIDEM and EPA
5. RIDEM requested that the shoreline seep identified by TTNUS personnel (and discussed with P. Kulpa) in the field in 1997 be sampled (note: this matter was reviewed by TTNUS, and the seep recalled by P.Kulpa is actually a sheen that was observed around the concrete culvert located to the north east of the ballfield). A sample is proposed for this culvert to address this potential seep.
6. Dioxins were added to the analyte list for Stations 301, 308, 319, and 322.
7. It was clearly stated that samples would be collected from the 0-1 foot sample interval. ATSDR preference for shallower samples (0-3 inches) and RIDEM request for deeper samples (0-2 feet) was noted. J. Shafer indicated that this issue would have to be elevated to another management level with RIDEM.
8. Agreed that data available from TRC collected from various intervals would be acceptable for inclusion into the risk assessment (existing data set includes samples from 0-0.25', 0-0.5', and 0-1.0' intervals).
9. It was agreed that for non-VOC samples, if the material appears to be uniform, the sample will be collected as a composite across the 0-1 foot vertical interval. If visible contamination or a high reading on the FID is seen in any zone within the target interval, that zone will be sampled in addition to the 0-1 foot composite.
10. It was agreed that for VOC samples, the face of the hole will be inspected with a FID to determine the vertical location of the VOC sample. The VOC sample will be collected from any interval that exhibits an actual response from the instrument. If there is no response apparent, the sample will be taken at the center of the interval - approximately 6 inches below ground surface.
11. It was agreed that due to the rocky nature of the shoreline, samples at the shoreline should be collected from an interval of 0-6 inches, not 0-1 foot. Shoreline stations would be collected between high and low tide lines.
12. It was agreed that the samples under the play equipment should be taken in depressions indicating heavy use (under swings, and at bottoms of slides). To accurately measure

exposure, the sample interval should include the uncompacted cushioning sand that is maintained under this equipment.

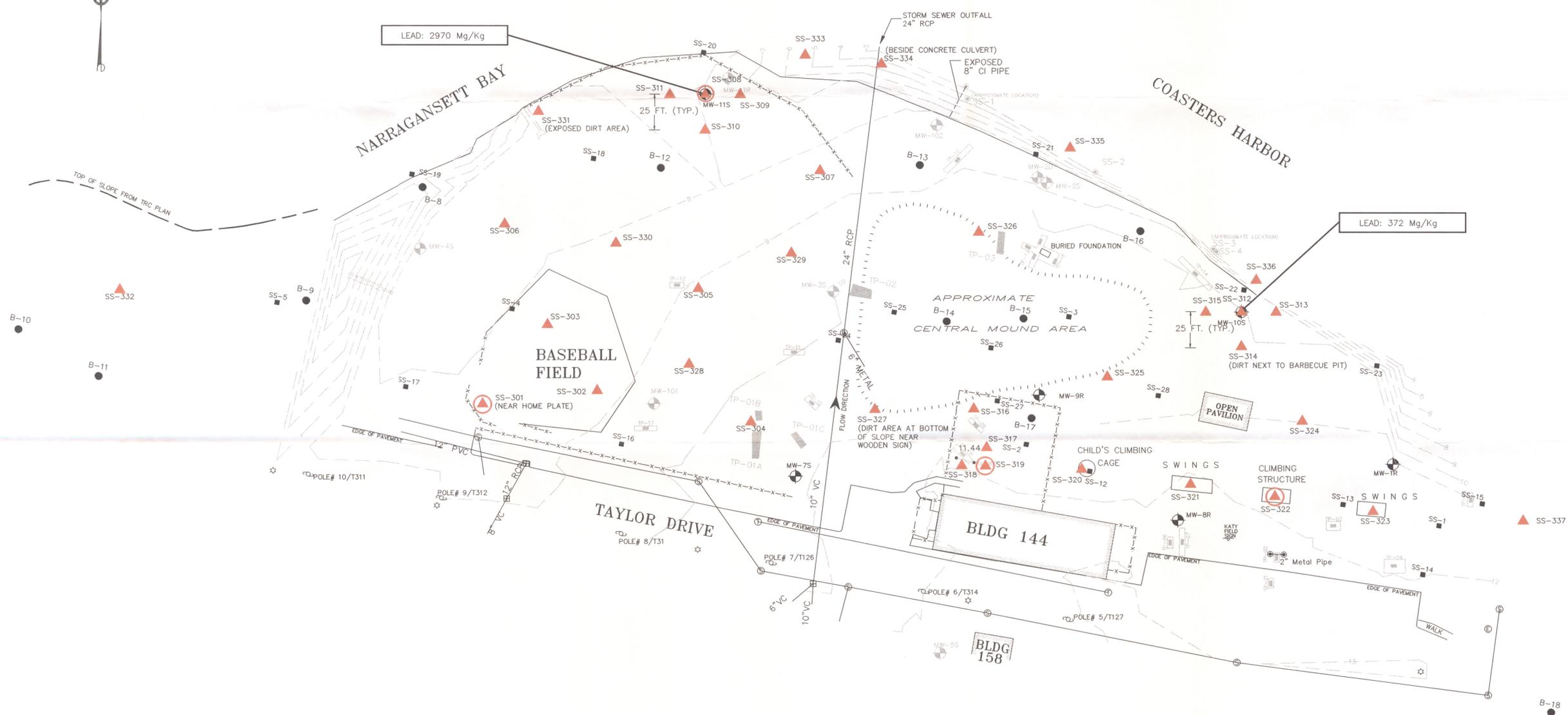
13. It was agreed that the samples taken from the baseball infield should be taken from the ground surface, without removing the imported infield soils.

At the conclusion of the meeting, it was reiterated that RIDEM would provide backup information to C. Hanna (EPA) for justification of the 0-2 foot interval, and the background levels that they enforce as threshold criteria.

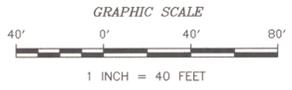
ATTACHMENT B
OVERSIZE MAP OF SAMPLE LOCATIONS
REVISED AS MARKED UP IN THE FIELD

LEGEND

- SS-28 SURFACE SOIL SAMPLE LOCATIONS (TRC - PHASE I - 4/90 FOR SS-1 THROUGH SS-5 ONLY AND FOR PHASE II - 11/93)
- B-16 SOIL BORING LOCATIONS WHERE SURFACE SOILS (0-1') WERE COLLECTED (TRC PHASE II, 11/93)
- MW-8R MONITORING WELL LOCATIONS WHERE SURFACE SOILS (0-1') WERE COLLECTED (TRC PHASE II, 11/93)
- SS-313 APPROXIMATE PROPOSED SURFACE SOIL SAMPLE LOCATIONS WITH IDENTIFIER (LOCATIONS TO BE DETERMINED IN FIELD)
- SS-322 APPROXIMATE PROPOSED SURFACE SOIL SAMPLE LOCATIONS WITH IDENTIFIER FOR DIOXIN ANALYSIS (LOCATIONS TO BE DETERMINED IN FIELD)
- MW-101 MONITORING WELL LOCATIONS WHERE SURFACE SOILS WERE NOT COLLECTED
- TP-03 TEST PIT LOCATIONS (B&R, JUNE 1997)
- TP-01C TEST PIT LOCATIONS (TRC, JANUARY 1994)



- NOTES:
1. SURFACE SOIL SAMPLE LOCATIONS AND DASHED TOP OF SLOPE FROM A PLAN BY TRC ENVIRONMENTAL CORPORATION, ENTITLED: "FIGURE 2-7 PHASE I AND II SURFACE SOIL SAMPLES", DATED 3/94, DRAWING NO.: 01043-0060-0040.
 2. LOCATIONS OF SWING SETS, CHILD'S CLIMBING STRUCTURE, AND PICNIC TABLES ARE BASED ON FIELD OBSERVATIONS AND ARE APPROXIMATE.
 3. ALL OTHER LOCATIONS (EXCEPT FOR SOIL SAMPLE LOCATIONS) FROM A PLAN BY GUERRIERE & HALNON, INC., JULY 1997, WITH COORDINATES BASED ON NORTH AMERICAN 1927 DATUM, RHODE ISLAND STATE PLANE COORDINATE COORDINATES, TRAVERSE MERCATOR PROJECTION (NAD 27).
 4. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE.
 5. PLAN NOT TO BE USED FOR DESIGN.



DRAWN BY: R.G. DEWSNAP		TITLE: PROPOSED SURFACE SOIL SAMPLE LOCATIONS	
PREPARED BY: D. McKENNA		OLD FIRE FIGHTING TRAINING AREA	
CHECKED BY: S. PARKER		NETC, NEWPORT, RHODE ISLAND	
PROJECT MANAGER: D. McKENNA		SOURCE: BASE PLAN BY GUERRIERE & HALNON, INC., JULY 1997	
PROGRAM MANAGER: J. TREPANOWSKI		SCALE: 1" = 40'	DATE: NOVEMBER 13, 1998
		DRAWING NO: 2	PROJ. NO: 5278 CTO: 218
		ACFILE NAME: \DWG\NETC\FIREFITE\SS_PROP.DWG	REV: 0

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ATTACHMENT C
ATTENDANCE LIST

CLIENT		JOB NUMBER	
SUBJECT			
BASED ON		DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE

OFFTA MEETING - NETC NOV. 10, 1998
MEETING ATTENDEES

<u>NAME</u>	<u>REPRESENTING</u>	<u>PHONE</u>
Steve Parker	T+NUS	[REDACTED]
Diane McKenna	TENUS	"
Paul Kulp	RIDEM	401-771-7111
Beth Timm	ATSDR	[REDACTED]
JIM SHAFER	NORTH DIV	670-555-5555 (124)
Cynthia Hanna	US EPA	[REDACTED]
Kymberlee Teckler	USEPA	[REDACTED]
JENNIFER STUMP	GF email = jstump@gnnet.com	[REDACTED] 11
Peter Colonka	GF	[REDACTED]
Melissa Griffin	NAVSTA Newport	[REDACTED]
TODD BOBER	NORTH DIV	[REDACTED]
Dave Barditt	NOETHOW	[REDACTED]