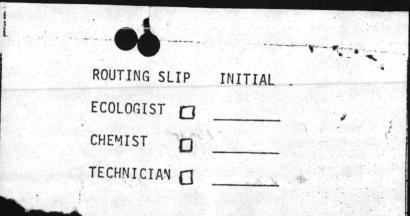
40 Julian -INfo - Note + Made & JW Return.



6240

Date: 23 March 1982

Memorandum for the Record

From: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

Subj: Suspected Chemical Dump, Rifle Range Area; Sampling on 18 March 1982 of

Encl: (1) Figures of Water and Well Depths of the Test Wells

(2) Table of Sample Information

(3) Rain Fall Readings

- 1. On 17 March 1982, Ens. Kalisch's Rad Pool was pumped down, by the Outside Plumbing Shop, to about 8" of water. The bottom was mostly leaves and logs. The water was forced down the hill.
- 2. On 18 March 1982, Jerry Wallmayer of LantDiv, Gaines Huneycutt and Elizabeth Betz of NREAB, Wallace Eakes of NEESA, and five men from the Consulting Firm from Gaines-ville, Fla, went out to the Chemical Dump.
- 3. Upon arrival the Rad pool was checked and the water level had risen about 4 ft, since the day before.
- 4. Then the group walked through theeDump. All three wells were located.
- 5. Portions of the Dump had been prescribed burned. A fire break had been cut through the Dump. The break had disturbed the soil. The barrel that had been in a pool was gone. Traces of a barrel was seen on the fire break. Alot of chemical test lits, consisting of plastic vials, like in Hach kits, were found in the fire break. They were labelled "Sampling Tube-White Dot Tubes." There weree other vials that were glass and alittle larger. There were some crystals that looked like CuSO4, color wise.
- 6. Jerry Wallmeyer had brought an Isco pump, Model 1580, and a generator to be used to pump out the Test Wells. He wanted to pump the wells down in the morning and in the afternoon come back and pump them again and take samples. This way the samples would more correctly reflect the grougd water. He also wanted to take well depths and water depths.
- 7. Jerry Wallmeyer started with test well 15, located on the road side edge of the dump. Test Well 15 had an elbow joint in it which made it impossible to take depths and pump. Mr. Wooten, Director of MREAB, who had come out for a few minutes, went back to Mainside and Ead the necessary tools sent back to take the elbow out of Test Well 15.
- 8. While waiting 66r the equipment for Test Well 15, we moved on to Test Well 16. Test Well 16 was determined to be 11'7" deep, with water at 28" from the top. The well was pumped for about 20 minutes, to dry, at 1045. The sample was taken at 1535 that afternoon. See Enclosure (1)
- 9. Test Well 17 was determined to be 25'1" with water at 61". This well had never been sampled before. An old hand pump had always been usedand no water was ever ob-

Mediarendum for the Record

From: Ms. setz; Quality Control Lab.; Environmental Section, NaLAS, Boatmibiv

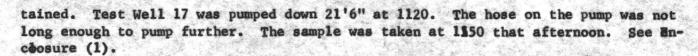
Subje Sus ested Chemical Dumn, Tille Ringe Area; Samillug on 18 March 4202 br

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(3) Rain Fall Readings

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- 9. Teac Well 17 has decermined to be 25 1% with weigt at 51%. This well bat mever been sampled belong. An old hand pump had always been usedsadd no water was ever to-



- 10. After the elbow was removed from Test Well 15, it was determined why it was put there in the first place. The elbow helped to keep the pipe above the surface. The pipe was now 13" below the surface. The part of the elbow that still remained was 8" long, sideways. The well was determined to be 12' deep, with water 48"down from the elbow. The well was pumped dry at 1300 in about 5 minutes. The sample was pumped at 1525. See Enclosure (1).
- 11. While the Test Wells were left to fill up again, Wallmeyer, Huneycutt and Betz went to the Rifle Range to take samples. The regular five TTHM samples (Trihalomethanes) were taken. Along with the TTHM samples, two sample bottles were filled for Wallmeyer at each TTHM sample point. Wallmeyer also took four additional samples at various points in the treatment process in the Water Plant. Raw Water Wells RR47 and RR45 were running at the time. Samples were also taken from each of the three raw water wells RR97, 47, and 45. For the sarbbus sample numbers, times, collectors, and locations see Enclosure (2).
- 12. A sample was not taken at Ens. Kalisch's Rad Pool even though it had been pumped.
- 13. Wallmeyer also wanted Rain Fall statistics. Forestry takes readings at 0800 every Monday-Friday, in fount of Bldg 1103. Enclosure (3) is a copy of Forestry's readings given to Wallmeyer.

Elizabeth A. Betz Supervisory Chemist inland. The their last puried down it's attitue. The hose of the rule was not a long enough to account the property of the pro

10. After the above was removed from that held is, it was determined why it was pleased in the first place. The clear in the first place, The above the above the series of the was new 13% released the entire that the class of the class of

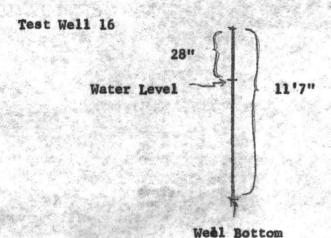
II. While and fost Mails Verdilate to fall in egain, walfdeyer gamayoust and Botz vest route, faile Range to take samples. The regular five TELM and les(Tribalomesh-Ales) was taken. Aleme with an order time samples, into sample bottles vers tilled for valing year to be samples at the various occurs in the sample, some. Walforder also to be four additional samples at the value occurs in the streament process in the water Pinch. The wells RAA and RAA, were instituted at the sample row value in the sample row value in the same care value in the same care value in the same care value is seen and locardous see Englowers (2).

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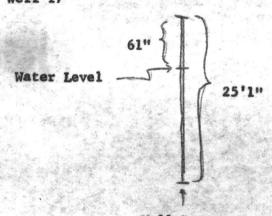
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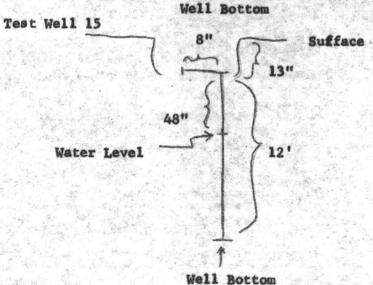
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### Figures of Water and Well Depths of the Test Wells



#### Test Well 17







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Test Woll 17

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## Table of Sample Information

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Sample #	Sample Location	<u>Time</u>	Collector
576 (THM)	WTP(RR-85) Raw-Below Aerator	1335	Huneycutt
577 (THM)	WTP(RR-85) Treated-From Tap(Delivered)	1340	Huneycutt
578 (THM)	RR-6, Fire House	1345	Huneycutt
RR-6 A&B	RR-6, Fire House	1345	Huneycutt
579(THM)	RR-10, Snack Bar	1350	Huneycutt
RR-10 A&B	RR-10, Snack Bar	1350	Huneycutt
580(THM)	RR-92, Sewage Plant	1355	Huneycutt
RR-92 A&B	RR-92, Sewage Plant	1355	Huneycutt
1 A68	WTP(RR-85) Raw-Below Aerator	1405	Huneycutt
2 A&B	WTP(RR-85) to Filter Pumps	1410	Huneycutt &
3 A&B	WTF(RR-85) After Fileer	1415	Wallmeyer Huneycutt &
4 A&B	WTP(RR-85) After Softener	1418	Wallmeyer Huneycutt
5 A&B	WTP(RR-85) Finished Water	1420	Huneycutt
6	WTP(RR-85) Treated-From Tap(Delivered)	1420	Wallmeyer
RR-47	RR-47, Raw Water Well	1435	Huneycutt &
RR=45	RR-45, Raw Water Well	1440	Wallmeyer Huneycutt
RR-97	RR-07, Raw Water Well	1450	Huneycutt
TW-16	Test Well 16, Chemical Dump	1525	Betz, Huneycutt, Wallmeyer
TW-16	Test Well 16, Chmmical Dump	1535	Betz, Huneycutt,
EW-17	Test Well 17, Chemical Dump	1550	Wallmeyer Betz, Huneycutt, Wallmeyer

# Table of Sample Information

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376 (TiR!)	- WTF(RR-85) Raw-Below Astatot	1335	auheyeve:
* (MAT) (TE:	wif (th-e5) Treated-Prom Tay (Delivered)	ingo paci	Marsycutt
573 (1920)	Sevel alte loued	i i de la companya d La companya de la companya de	Haneyeutt.
non d-an	WE's, Fire House	1943	Huneycutte
#77 (ritu)	PP-10, Snack Backers of the second	1350	Huneyoutt
RI-10 AGB	RR-10, Spack-Bar	1350	saugyoud! &
(Har)use	MI-92, Sewage Flamb	their	tubeyout:
2R-92 ASB	fr-92, Sevaga Plaut	* - Takes	Janyent
A Ast	Wr (22-93) Ray-gelow Aerator	I-05	- Manayanat-
2 A.B	WIF(RR-15) To Filter Pumps	1440	- Hungeycatt &
3-AA-C	THE CREEKS AREA TO THE TOTAL	1415	Wallmayer 6
- AZAW	WEP(RE-65) Afger Solvenor	1413	. Wallmeyar Museyente
5 36R	Wi (wA-83) Finashed Water	1420	- Woreyeuse
à.	WIR(BR-85) Trented-Prom Tan (Delivered)	14:00	Wallnever
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			Wallmoyer
24*£7.	TR-45, Row Water Wold	0.244	funeyant c
× 19-33	Flow relaw was , W-MS	M50	Numeyoutt .
THELL	Year Well 15, Chamical Dump	1525	Retwillumeyrotti Wallacyen
osews	Test Well 16, Themstesh Dump	1535	Rets, Tuneyoutt,
7.74-17	Teat Well 17 Cubmical Dump	1550	Belt Runeycuck;

### Rain Rall Readings

For Februa	ry 1982	For March	1982
Date	Inches	Date	Inches
3	1.7	1	0.80
10	0.75	2	0.2
17	2.3	5	0.1
19	0.30	8	1.6
22	0.2	16	1.15

- 1. Read at 0800 every Monday-Friday, in front of Bldg 1103(NREAB Office)
- 2. Missing dates had no recordable rain fall. Above data is from 1 February-19 March

### Main Meil Readlins

For February 1982 For Marchy 1

Inches	odeU.	4-11 71 32		e Inches	Dat
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1.0.	2			\$ \$7.0°	Q.b
			sage	08.0	1.0
21.1				2.0	22

. Read at 0300 every Mondayerriday, in from of 81dg 1103(WAMAS Office)

2. Missing dates ded to recordable rain fall. Above data is from 1 Pabraury-19 March