MEMORANDUM

Departmen

Publication No. 72-e45

WA-39-1110

TO: Dan Neal

DATE: May 8, 1972

FROM: Gary Rothwell

SUBJECT: Selah S.T.P.

A six hour survey was conducted at the Selah STP on April 18, 1972. There were no major problems encountered during the survey except an air lock in the digestor-clarifier line which was corrected immediately. Sediment from the clarifier was stirred up, however, and sampling was discontinued for one hour (one composite sample) until the clarifier was clear.

The storm drain in the plant was sampled every half hour and the results are listed below. The water appeared very clear all through the day except for a short period at approximately 1330. I was able to take a special coliform sample and the regular composite sample and then the water became clear again. I would suspect that any unusual values in the composite sample were due to this occurrence.

рH	Cond.	Turb.	BOD	COD	T.S.	T.S.S.	T.N.U.S.	T.N.U.S.S.	T. Collf.	F. Collf.
7.9	588	3	2	27	357	2	234	0	2500	270

GR:bj

Check

STP SURVEY REPORT FORM

(EFFICIENCY STUDY)

CitySelah	P1	ant <u>Typ</u>	eAct. S	ludge Pop	ulation ved	3500	Desi	<u>gn</u> 3000 city	
Receiving Water Yak	ima River					r_ Dan N	-	•	
Date 4-18-72	Sur	vey Per	iod_09	00 - 1530	Sur	vey Pers	onne1	Gary Rothwe	e11
Comp. Sampling Frequ									
Sampling Alequot 2	00 ml/100	,000 Ga	l	Mangan ang pang mang pang pang sa	****				
·			PLA	NT OPERATI	ON				
Total Flow 124	,000 Gal.			How	Measure	1 Tota	lizer		
Max. (Flow) 5 mg/d								of Min	330
Pre Cl ₂	∦/da	y	Post	^{C1} 2 — 4	0	_//day			
			FI	ELD RESULT	'S				
		Inf	luent			E	ffluent		
Determinations	Max.	Min.	Nean	Median	Max.	Min.	Mean	Median	
. C	18.5	17.6	18.0	18.1	11.9	9.4	11.0	. 11.1	
pll	8.0	7.91	8.0	8.0	7.6	7.4	7.4	7.4	
Conductivity	750	700	700	750	1000	1000		1100	
(umhos/cm) Scttleable	750	700	728	750	1200	1000	1100	1100	
Solids	7	4	5.3	5	Nil	Nil	Nil	Nil]
]	LABORATO	DRY RESI	JLTS ON CO	MPOSITE	IN PPM	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	n fan fan skriften s	Paran Matanan ya Antika (1993)
	Infl	uent		Effluen	t	1 %	Reductio	n	1
Laboratory Number						1			
5-Day BOD	27	3		3		1	99	· · · · · · · · · · · · · · · · · · ·	
COD	56			42		†	92		
T.S.	70			608		1	13		
T.N.V.S.	40			502		1 11	ncrease '		
T.S.S.	24			: 7		1	97	a .	
N.V.S.S.	.2			1		1	95		
pli	7.			7.5		!			
Conductivity	73			965	-	<u> </u>	ncrease		
Turbidity	9	0	l	3		<u> </u>	97]·

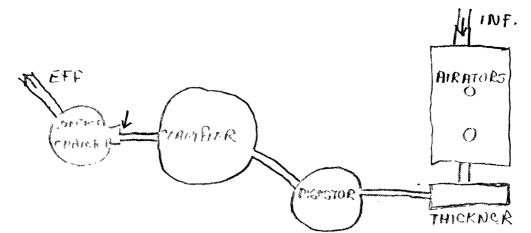
Page two

-Selah

BACTERIOLOGICAL RESULTS

72-1115	5		00 MLS (MF)		Residual
72-1115		Total	Fecal	ppm '	(after see
	0930	200	< 80	>1.0	15
1116	1030	<100	<200	>1.0	15
					15
1118	1230	<100	<200	>1.0	15
· .					
Name Joe	Ford		Phone	#	
	· · · ·		Phone	1	
Name Joe	· · · ·		Phone	1	
	· · · ·		Phone	1	
	· · · ·		Phone	1	
	· · · ·		Phone	1	
	· · · ·		Phone	1	
-	1117 1118	1117 11 <u>3</u> 0 ·	1117 <u>1130</u> <200	1117 <u>1130</u> <200 < 80	1117 1130 · <200 < 80 >1.0

**************************************				Exhibit F			
FEDERAL WATER	PARTMENT OF THE INTER POLLUTION CONTROL AD PLANT OPERATION A ICES QUESTIONNAIRI	INVISTRATION		FORM APPROVED BUDGET BURLAU NO. 42-H1527			
CHECK ONE	DATE OF AUDIT	PLANT DESCRIPTION CODE (For Officin Only)					
	A. GENERAL	INFORMATION					
1. PROJECT (State, Number)		SCOPE OF PROJECT	(new plant, add	itions, etc.)			
2. PLANT LOCATION (City, county)		IDENTIFICATION OF	AREAS SERVE	D			
<u> </u>	<u>C)</u>						
•	3. POP	ULATION					
SA. FRACTION OF AREA POPULATION SERVED (70)	30. PLANT DESIGN (P	opulation equivalent)	3C. SERVED	BY PLANT (domestic)			
	4. TYPE OF COL	LECTION SYSTEM					
AA.	Вотн	4B. ESTIMATED FLOW WATER (inlilitatio	n, mgd)	ED BY SURFACE OR GROUND			
S.YEAR COMMUNITY BEGAN SEWAGE	6	YEAR PRESENT SYST	EM PLACED I	OPEPATION			
1735	6A. SEWER	6B.	PLANT	6C. ANCILLARY WORKS			
7A. SIZE OF PLANT SITE (acres)		78. APPROXIMATE AF	REA LEFT FOR	R EXPANSION (acres)			
A. IN THE SPACE PROVIDED BELOW FUR FLOW SEQUENCE. INCLUDE THE METH STABILIZATION PONDS AND NUMBER C	NISH A SIMPLIFIED FLOW HOD OF ULTIMATE SLUDG OF CELLS. INDICATE WHE	DIAGRAM OR A WRITTE E DISPOSAL. SHOW AP THER FLOW TO AND F	N DESCRIPTIO	DN OF THE PLANT UNITS IN URFACE AREA OF BY PUMPING OR GRAVITY.			



88. NOTE ANY SIGNIFICANT OR UNIQUE PROCESSING CONDITIONS.

		9. RECEIV	ING STREAM					
9A. NAME OF STREAM	MAR		8					
98. STREAM FLOW IS				INTERS	TATE INTRASTATE			
PERENNIAL	INTERMITTENT	NATUPAL	REGULATED	COAST	AL			
	B. CURRENT PE	REORMANCE AND PLA	NT LOADING INFORMA	TION				
1A. ANNUAL AVERAGE (mgd)	DAILY FLOW RATE	IB. PEAK FL	ON FATE (med)	IC. MINIMUN	IFLOW RATE (mgd)			
	0,000	DRY WEATHER	WET WEATHER	200,000				
2. AVERAGE BOD OF R	AN SENAGE (5 DAY 27 C	C) (ppm)	3. AVERAGE SETTLEABLE SOLIDS OF RAW SEWAGE (MHOFF Com (mi/l)					
4. AVERAGE SUSPENDS	ED SOLIDS OF RAW SENA	NGE (m;/1)	5. AVERAGE COLIFO	AM DENSITY C	DF RAW SEVIAGE (mpf 100 ml)			
	*******	6. AMNUAL AVERAGE	PLANT RECUSTION					
6A. 800 151	68. SETTL	EABLE SOLIDS (7)	6C. SUSPENDED SOLI	and the second s	ED. COLIFORM GENSITY 15			
FWPCA-12 (Rev. 4-65)					Lager dan same dan dan pengerakan dan dan dan dan dan dan dan dan dan d			

Pages 5 and 6 of this publication are too illegible to be viewed online. To request a printed copy of this publication, please contact the Environmental Assessment Program at the Washington State Department of Ecology.

addition to the test code, <u>CODES</u> 1 - 7 or more per week	3 - 1. 2	, or 3 per wee	k 5	– 2 or 3 per n	onth	7 - 0	uarterly	9 — Ann	notte	
2 - 4, 5 or 6 per week	4 - as i			 2 or 3 per h 1 per month 		-	uarteriy ≏mi <mark>⊷Ann</mark> u		uarry	
				<u> </u>	[SLI	UDGE			
ITEM	RAW	PRIMARY EFFLUENT	LIQUO		-	RAW	SUPER		STOR	RECEIVING
1. BOD	S X			5		<u></u>				
2. SUSPENDED SOLIDS	5			5			1	1		• ••••••••••••••••••••••••••••••••••••
3. SETTLEABLE SOLIDS	1			/			1			
4. SUSPENDED VOLATILE	5		1	5				5		
5. DISSOLVED OXYGEN	/ X		1		-		1			
5. TOTAL SOLIDS	5.		· ·····	5				5	•	
7. VOLATILE SOLIDS	5			5			1	5		
8. p ²¹	1		1	/						
. TEMPERATURE	/		1							
10. COLIFORM DENSITY										
1. RESIDUAL CHLORINE										
2. VOLATILE ACIDS								5		
3. M. B. STABILITY										
14. ALKALINITY							·			
15. C.O.D.	5X						·			
6.							+		†	
7.							†		 ·	
B.						<u>.</u>	†			
9.							+			
······································	ـــــــــــــــــــــــــــــــــــــ	OPERATION A	AND MAIL	ITENANCE CO	TFO	RPLANT		I		
	ALARIES WAC		RICITY	CHEMICALS	N	AINTENAN	CE OT	HERITEMS	-	TOTAL
AOST CURRENT YEAR 1972	#18,120 5	- #10,80	0 00	800 00	6	6400 2	0 4	000 00	-1	0,120,-
PRIOR YEAR 1971		1.2.4	L	111		,				/
PRIOR YEAR 1970		NOT	7	THE.	S/	INE				
PRIOR YEAR 1969				· · · · · · · · · · · · · · · · · · ·			.			
EVALUATION PERFO	RMED BY	Ī		TITLE			†	ORGANI	ZATIO	N [°]
Corry Ronna	vcII	Si	21.000	Die PAN)			of Eco)C.	•
	••• •••			<u></u>	£				<u>``</u>	·····
								·		
INFORMATION FURNIS	HED ay		דוד	LE		1	ORGANIZ	ATION	[DATE
Job Joep		Chie	-	RATO	ρ	+		SELAT	\overline{y}	-
Strike Mix C. C.J.			s of	MATO.	<u>\`</u>		VI.	SELAT	Z	
·····						l			ļ.	

	CRDS MAINT Coeral items in		TYES [] NO	REPORTED	" L	YES	NO		
	12			1	TO WHOM			1	I	Τ
FREQUENCY WEATHER	ELOW	ANDLED	USED		GRIT HANDLED	USED	DATA	AIR USED	MAIN - TENANCE	OTHER
DAILY /	1									
WEEKLY				•						
MONTHLY										
ANNUALLY										
6. ARE LABORATORY RE	CORDS MAIN	TAINED'	(check appro	priate box)						L
	OT AT ALL	DAI		WEEKLY			ANNUALLY	•		
1 1 1		TABUI	AP SHEET	SEPAI	RATE BY OF	ERATION	CONTI	ROL CHART	S GRA	PHS
WHAT PLANT AND/OR	LABORATOR	RY EQUIPS	MENT, GAGE	S AND MET	ERS ARE CA	LIBRATED	PERIODICA	LLY! JD/	y merck) ~
7. IS LABORATORY TEST	•		THE CONTR	OL REQUIR	ED FOR THI	S SIZE AND	TYPEOF	PLANT?		
YES 🗌] NO (II no, ex	(plain)								
8. INDUSTRIAL WASTES	DISCHARGED	TO MUNI	CIPAL SYST	EM:	A. NUMBER	AND TYPE AJUR	SOF INDUS	TRIES DISC	HARGING TO	SYSTEM
B. POPULATION EQUIVA	LENT (BOD)	OF INDUS	TRIAL WAS	TES (pr)					D. ANT	
D. VOLUME OF INCUSTRI		(mad)			E. COMPOS					
						TION AND	CHARACIE	RISTICS OF	INDUSIMIAL	. *****
F. MAIN DIFFICULTY EX						TION AND		RISTICSOF		
F. MAIN DIFFICULTY EX	: IN 1	Dir.	rs rek	۱.	n)	VNO (11		RISTICSOF		
F. MAIN DIFFICULTY EX	: IN 1	Dir.	rs rek	۱.	n)					. WAJIEJ
F. MAIN DIFFICULTY EX	, IN I	DIC .	STER	۲ ۲ ۲	n)	U NO (11	yes, how?)			
F. MAIN DIFFICULTY EX	S USED TO A	OBLEMS E	STER	ASTE TREA	n)	VNO (11 T (check of ESSMENT	yes, how?) opropriate bo: CHAR	k) IGE BASED		
F. MAIN DIFFICULTY EX	SUSED TO A	OBLEMS E	DUSTRIAL W	ASTE TREA	THENT COS	VNO (11 T (check of ESSMENT	yes, how?) opropriate bo: CHAR	k) IGE BASED	ON FLOW	
F. MAIN DIFFICULTY EX	SUSED TO A	OBLEMS E	DUSTRIAL W	ASTE TREA	THENT COS	VNO (11 T (check of ESSMENT	yes, how?) opropriate bo: CHAR	k) IGE BASED	ON FLOW	
F. MAIN DIFFICULTY EX	THUENT PROFILIENT PROF	OBLEMS E	DUSTRIAL W PERTY TAX	ASTE TREA	n) YES THENT COS TER USE ASS ARGE BASED cale, etc.)	NO (11 T (check ep ESSMENT ON SS	yes, how?) opropriate bo: CHAR	k) IGE BASED	ON FLOW	
F. MAIN DIFFICULTY EX F. MAIN DIFFICULTY EX G. HAVE INDUSTRIAL EF BA. METHOD OR METHOD ING CHARGED COMMENT ON HOW CH B. IS INDUSTRIAL WASTE	SUSED TO A BY CITY BASED ON BO HARGE IS CO	OBLEMS E	DUSTRIAL W PERTY TAX	ASTE TREA	n) YES ATMENT COS TER USE ASS ARGE BASED cale, etc.) YES	VNO (11 T (check of ESSMENT	yes, how?) opropriate bo: CHAR	k) IGE BASED	ON FLOW	
F. MAIN DIFFICULTY EX	E ORDINANCI	OBLEMS E	DUSTRIAL W PERTY TAX O (lixed charge ECT AND EN HE OPERAT	ASTE TREA	n) YES ATMENT COS TER USE ASS ARGE BASED cale, etc.) YES E PLANT?	VNO (11 T (check ep SESSMENT ON SS	yes, how?) propriate bo: CHAR OTHE	K) IGE BASED R METHOD	ON FLOW	
F. MAIN DIFFICULTY EX	CTICE OR INS	OBLEMS E	DUSTRIAL W DERTY TAX D (lixed charge ECT AND EN HE OPERAT	ASTE TREA	n) YES ATMENT COS TER USE ASS TER USE ASS Cole, etc.) YES FLANT? IF YES, WHO WHO	NO (11) T (check of ESSMENT ON SS NO NO	Propriate bo: CHAR CHAR OTHE	R METHOD	ON FLOW S (describe)	
F. MAIN DIFFICULTY EX	E ORDINANCE CTICE OR INSTRUCT	OBLEMS E	DUSTRIAL W DEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT	ASTE TREA	n) YES ATMENT COS TER USE ASS TER USE ASS Cole, etc.) YES FLANT? IF YES, WHO WHO	NO (11) T (check of ESSMENT ON SS NO NO	Propriate bo: CHAR CHAR OTHE	R METHOD	ON FLOW S (describe)	
F. MAIN DIFFICULTY EX	E ORDINANCE CTICE OR INSTRUCT	OBLEMS E ASSESS INIT PROP D D D D D D D D D D D D D D D D D D D	DUSTRIAL W DUSTRIAL W PERTY TAX D (lixed charge ECT AND EN HE OPERAT	ASTE TREA WWAT CHA e, sliding so FORCED? FON OF THE BLE? BORATORY	n) YES ATMENT COS TER USE ASE TER USE ASE Cale, etc.) YES E PLANT? IF YES, WHO WORK AND	NO (11) T (check ep ESSMENT ON SS NO NO WROTE AN T PUCL MAINTENA	Yes, how?) ppropriate bo CHAR OTHE OTHE VOINE VOINE NCE OF REG	R METHOD	ON FLOW S (describe)	
F. MAIN DIFFICULTY EX	CTICE OR INSTRUCT	OBLEMS E ASSESS INIT PROP D D D D D D D D D D D D D D D D D D D	DUSTRIAL W DUSTRIAL W PERTY TAX D (lixed charge ECT AND EN TE OPERAT DNS AVAILA DTED TO LA	ASTE TREA WAT CHA CHA Se, sliding so FORCED? FORCED? FORCED? SON OF THE BLE? BORATORY ASTE TREA	n) YES TMENT COS TER USE ASS TER USE ASS TER USE ASS TER USE ASS TER USE ASS VES E PLANT? VES E PLANT? WORK AND Most Recent URS TOTA CER	NO (11) T (check ap ESSMENT ON SS NO WROTE AN T MO WROTE A	Ves, how?)	R METHOD	ON FLOW S (describe)	N YEA35
F. MAIN DIFFICULTY EX	CTICE OR INSTRUCT	OBLEMS E OBLEMS E OBLEMS E PROF D D D C E IN EFFE TON IN TH STRUCTIC EEK DEVO SONNEL	DUSTRIAL W DUSTRIAL W PERTY TAX D (lixed charge ECT AND EN TE OPERAT DNS AVAILA DTED TO LA	ASTE TREA WAT CHA e, sliding so FORCED? FORCED? FORCED? BLE? BORATORY	n) YES TMENT COS TER USE ASS TER USE ASS TER USE ASS TER USE ASS TER USE ASS VES E PLANT? VES E PLANT? WORK AND Most Recent URS TOTA CER	VNO (11) T (check ap ESSMENT ON SS NO WROTE AN T MO WROTE	Propriate bos CHAR CHAR OTHE OTHE VUICK	CORD S AN	ON FLOW S (describe)	N YEA35
F. MAIN DIFFICULTY EX	CTICE OR INSTRUCT	OBLEMS E OBLEMS E OBLEMS E PROF D D D C E IN EFFE TON IN TH STRUCTIC EEK DEVO SONNEL	DUSTRIAL W DUSTRIAL W PERTY TAX D (lixed charge ECT AND EN TE OPERAT DNS AVAILA DTED TO LA	ASTE TREA ASTE TREA WAT CHA CHA CHA Se, sliding so FORCED? FORCED? FORCED? BLE? BORATORY ASSIST for CHA BLE? BORATORY CHA CHA CHA CHA CHA CHA CHA CHA	n) YES TMENT COS TER USE ASS TER USE ASS TER USE ASS TER USE ASS TER USE ASS VES E PLANT? VES E PLANT? WORK AND Most Recent URS TOTA CER	NO (11) T (check ap ESSMENT ON SS NO WROTE AN T MO WROTE A	Ves, how?)	R METHOD R METHOD COIT? CORD S AN IN YEARS OYEO AT NT PLANT	ON FLOW S (describe)	N YEA35
F. MAIN DIFFICULTY EX	E DRDINANCH CTICE OR INS NO DURS PES WE	OBLEMS E OBLEMS E OBLEMS E PROP D D D D D D D D D D D D D	DUSTRIAL W DUSTRIAL W PERTY TAX D (lixed charge ECT AND EN TE OPERAT DNS AVAILA DTED TO LA	ASTE TREA WWAT CHA CHA CHA CHA CHA CHA CHA CHA	n) YES ATMENT COS TER USE ASS TER USE ASS Cale, etc.) YES PLANT? IF YES, WHO WORK AND Most Recent LI	NO (11 T (check of ESSMENT ON SS NO WROTE AN Year Report L NUMBER TIFLED OR CENSED T	Ves, how?)	DITT R METHOD CORD S AN MUSC AT NT PLANT	ON FLOW S (describe)	· · · · · · · · · · · · · · · · · · ·
F. MAIN DIFFICULTY EX	E DRDINANCH CTICE OR INS NO DURS PES WE	OBLEMS E OBLEMS E OBLEMS E PROP D D D D D D D D D D D D D	DUSTRIAL W DUSTRIAL W PERTY TAX D (lixed charge ECT AND EN TE OPERAT DNS AVAILA DTED TO LA	ASTE TREA WWAT CHA CHA CHA CHA CHA CHA CHA CHA	n) YES TMENT COS TER USE ASS TER USE ASS TER USE ASS TER USE ASS TER USE ASS VES E PLANT? VES E PLANT? WORK AND Most Recent URS TOTA CER	NO (11 T (check of ESSMENT ON SS NO WROTE AN Year Report L NUMBER TIFLED OR CENSED T	Ves, how?)	CORD SAN	ON FLOW S (describe)	N YEARS
F. MAIN DIFFICULTY EX G. MAVE INDUSTRIAL EF 94. METHOD OR METHOD NO CHARGE COMMENT ON HOW CH B. IS INDUSTRIAL WASTE 0. WHO PROVIDED INITIA 1. IS A MANUAL OF PRAC YES 1. IS A MANUAL OF PRAC YES JOB CATEGORY 1. SUPE PINTENDENT 2. OPERATOPS 3. LABORATORY TECHNIK	CIANS	OBLEMS E OBLEMS E OBLEMS E PROP D D D D D D D D D D D D D	DUSTRIAL W DUSTRIAL W PERTY TAX D (lixed charge ECT AND EN TE OPERAT DNS AVAILA DTED TO LA	ASTE TREA WWAT CHA CHA CHA CHA CHA CHA CHA CHA	n) YES ATMENT COS TER USE ASS TER USE ASS Cale, etc.) YES PLANT? IF YES, WHO WORK AND Most Recent LI	NO (11 T (check of ESSMENT ON SS NO WROTE AN Year Report NUMBER TIFLED OR CENSED T	Ves, how?)	DITT R METHOD CORD S AN MUSC AT NT PLANT	ON FLOW S (describe)	N YEA35

F	W	Ρ	CA	-	12	()	7 E	v	. 4	- ا	6	9	H	(F	P,	Ø,	je		4
---	---	---	----	---	----	----	-----	---	-----	-----	---	---	---	----	----	----	----	--	---

G. NOTAT	гюн	S BY	EVA	LUATOR

1. ADDITIONAL REMARKS (If remarks refer to a particular item, identify by number)

2. GENERAL COMMENTS ON HOUSEKEEPING AND MAINTENANCE

A CONTRACTION ACTION S OF PRESENT PLANT TO DATE.

 S. NUMBER OF STATE INSPECTIONS OF PRESENT PLANT TO DATE.

 IS ANY FOLLOW-THEU ACTION REQUIRED TO (1) CORRECT DEFICIENCIES IN THE PLANT OR ITS OPERATION OR
 IS RESOLVE INDUSTRIAL WASTE PROBLEMST (1) yea, describe required corrective action) yes NO

STATE OF WASHINGTON OF ECOLOGY DEPARTMEN TV

WATER QUALITY LABORATORY

DATA SUMMARY

G. Rothwess.
COPIES TO:
LAB FILES

	0 .	
Source	Selah	

Date Collected 4-18-72

Collected By Gr. Rothwell

Goal, Pro./Obj. 3223

Log Number:	72-	1114	1115	1116	((17	1/18	119	1120	1/21	(122		
Station:		STORM URAIN	EFF.	EFF.	EFF. @ 1130	EFF. @ 1230	1119 STORM ORAIN @1140	INF.	EFF.	STORM DRAIN		
рН								75	7.5	7.9		
Conductivity (unh	os/cm)							736.	965.	588.		
Turbidity (JTU)							<u> </u>	90	3	3	-	
BOD (5 day)								273	3	2		
COD								560	42	27		
T. Coliform (colo	nies/100ml)		200	100	1.200	100	2500			 		,
NO3-N (Filtered)									ļ	ļ	·	
NO2-N (Filtered)									ļ			•
· 3-N (Unfiltered	<u>}</u>	.08										
T-P (Unfiltered)						l				L		
0-PO4-P (Filtered)											
Total_Solids								700	608	357		
Total Suspended S	olids							245	7	2		
Total Non Vol. So	lids				-			401	502	234		
Total Non Vol. Su	s. Solids							21	l	0		
Fecal ColiForm	(col/100 1)		180	(200	580	1200	270					
		-										
	-											
											1	
• • • • • • • • • • • • • • • • • • •				•								
Note: All result	s are in PP	M unle	ss oth	erwise	speci	fied.	ND is	"None	Detec	ted"		

Date 4-26-72