

*This is not proper on WWTP operators log book. It is  
case file + not bound log book as  
should be.*

This is an UNCONTROLLED DOCUMENT printed 04/17/07 for reference only. The current copy is on-line on the Public Works Intranet at <https://pwmoira>.

*Present*

Public Works - O&M Division		
Procedure: WWTP Daily Operating Procedures Document ID: PWU-105		
Document Owner: Nathan E. Barta	Approval: Darrell Robinson	Revision: 7 Revision Date: 4/17/07
Supervisor, WWTP	Chief, O&M Division	Original Date: August 1995

Purpose: To provide ~~primary~~ guidance to daily plant operations

Applicability: All WWTP employees

References:

- a. WWTP Mission.
- b. WWTP Vision.
- c. DA Form 1594, NOV 62, Daily Staff Journal (Operator Log)
- d. WWTP Form 1, APR 07, Daily Inspection Sheet
- e. DA Form 4283, SEP 03, Facility Engineering Work Request (IJO)

Operator Processes: *not problem good*

1. **Shift Change.** Operators shall conduct a thorough shift change with the outgoing and incoming operators, and annotate accordingly in the Log.

a. Review each line of the Log and the WWTP Inspection Sheet, line-by-line, and note any discrepancies. See Enclosure 1 for minimum required comments that need to appear in the Operator Log.

b. At a minimum, review any problems or unusual conditions, status of equipment, PMs performed, system parameters, visitors and their reasons, and any supervisor instructions.

c. Clean-up common and operator work area, prior to departure.

d. Both operators shall sign after the review of the Log and the Inspection Sheet, at the next line after the final entry for the shift.

3. **Inspections.** Operators shall inspect the entire plant, at least twice per shift, IAW the WWTP Inspection Sheet and associated equipment O&M manuals at least twice per shift.

a. Note specific readings directly on the inspection sheet in the appropriate block.

b. Update the equipment status board, as necessary.

- i. If any equipment is not mission capable, tag out/lock out appropriately.
- ii. If any equipment is on standby, update the board
- c. Annotate any significant discrepancies in the Log and note actions taken to correct each discrepancy. Actions taken include, but limited to:
  - i. SO: Call in any Service Orders for minor repair requests that need other Public Works shop support.
  - ii. IJO: Fill out the FEWR for any discrepancy requiring any outside support to correct.
  - iii. Purchase Requests. Fill out any repair parts requests necessary for the equipment. Be specific in identifying the equipment by make, model, serial number, etc that will help the purchasing agent.

4. **Preventive Maintenance.** Operators shall perform assigned PM actions within the tour of duty, and annotate the actions in the Log and in the daily time sheet, ensuring to specifically identify the PM number.

**Supervisor Processes:**

5. Supervisor shall review the daily operations packet, to include the Operator Log, the Inspection Sheet and FEWR for completeness, accuracy, plant trends, and relevance. See Enclosure 2 for the flow process.

- a. Sign the bottom of the Operator Log. *not a bound book*
- b. Forward IJO to O&M Division.
- c. Forward PM completion forms to O&M Division.
- d. Forward purchase requests to the Division purchasing agent.
- e. Update Short Term and (b)( Term plant repair and CI plans.

**All Processes:**

6. Administration and Coordinating Instructions.

- a. Daily plant shift work hours:
  - i. Lab: 0500 - 1530 (except 8-hour *every other* Fridays)
  - ii. Day: 0600 - 1530 (except 8-hour Tuesdays)

iii. Swing: 1330 – 2300 (except 8-hour Tuesdays)

iv. Grave: 2200 – 0730 (except 8-hour Wednesdays)

b. Weekly operations meeting will be held when majority of the employees are present, typically every Tuesday, 0630-0730 and 1400-1500.

c. Monthly training meetings will be held at date and times to be determined and will address statuses of ongoing construction projects, capital improvement plans, PW-wide initiatives, and plant safety.

d. Operators shall submit daily time sheet, and any unscheduled overtime and leave forms into the supervisor.

e. Operators are authorized to make direct coordinate within the shop for any coverage for planned and unplanned absences.

f. LeMay is scheduled for debris can pickup on Tuesdays and Fridays. If the screenings cans are full, contact LeMay for removal and dumping at (253) 537-8687.

g. This procedure will be reviewed annually.

#### DOCUMENT REVISION SUMMARY

Original Document Issue Date: August 1995		
REVISION NUMBER	DATE OF REVISION	REVISION SUMMARY
	15 Nov 2002	No Revisions were made to this document upon this review.
6	15 Dec 2004	Document owner changed.
	1 Oct 2005	Document owner changed.
7	17 Apr 2007	Complete revision of the entire document.

DAILY STAFF JOURNAL OR DUTY OFFICER'S LOG

For use of this form, see AR 220-15; the proponent agency is Office of The Deputy Chief of Staff for Operations & Plans

PAGE NO.

NO. OF PAGES

ORGANIZATION OR INSTALLATION

LOCATION

PERIOD COVERED

WWTP  
MNV-LFW-PWO MS17  
FORT LEWIS, WA 98433-9500

BUILDING 7500

FROM		TO	
HOUR	DATE	HOUR	DATE
0730		0730	

ITEM NO.	TIME		INCIDENTS, MESSAGES, ORDERS, ETC.	ACTION TAKEN	IN/L
	IN	OUT			
			<i>Sample</i>		
			<i>(b) (6) sta bound log</i>		
			<i>Book</i>		
			<i>Sheets can be removed</i>		
			<i>or ripped out or</i>		
			<i>lost</i>		

TYPED NAME AND GRADE OF OFFICER OR OFFICIAL ON DUTY  
*(b)(6) SUPERVISOR*

SIGNATURE



**DAILY STAFF JOURNAL OR DUTY OFFICER'S LOG**

For use of this form, see AR 220-15: the proponent agency is Office of The Deputy Chief of Staff for Operations & Plans

PAGE NO.

NO. OF PAGES

ORGANIZATION OR INSTALLATION	LOCATION	PERIOD COVERED			
		FROM		TO	
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ITEM NO.	TIME		INCIDENTS, MESSAGES, ORDERS, ETC.	ACTION TAKEN	IN/L
	IN	OUT			

TYPED NAME AND GRADE OF OFFICER OR OFFICIAL ON DUTY	SIGNATURE
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WWTP Daily Inspection Sheet

Date: \_\_\_\_\_

AREA	EQUIP/SYSTEM	TASK DESCRIPTION	DAYSHIFT	SWINGSHIFT	GRAVEYARD
Headworks	Influent Sampler	Check power & sample level			
	Fine Screens	Check & clean operating finescreen			
	Belt Conveyor	Check & Clean (Each Shift)			
	Grit Channels	Check for air mixing			
	Grit blower & pump	Check			
	Dumpsters	Check & spread screenings			
	Headworks Area	Washdown (Each Shift)			
Thickener	Sludge Thickener	Check that thickner drive is operating			
	Scum Concentrator	Check for proper operation & clean			
	Thickened Sludge Pumps	Check operating pump for proper operation			
	Sludge Pump Room	Washdown when needed			
Primaries	Primary Effluent Pumps	Check & oil as needed			
	T-valves & Pits	Check & clear T-valves, washdown when needed			
	Flight & Auger Drives	Check for proper operation			
	Primary Sampler	Check power & sample level			
	Scum Pit	Check pit level			
	Scum Skimmers	Skim grease as needed, washdown as needed			
	Recirculation Valve	Check for proper operation			
	Primary Sludge pumps	Check for proper operation & check seal water tank level			
Disinfection	Effluent Sampler	Check power & sample level			
	Chlorine Analyzer	Check for proper operation			
	Chlorine Sample Pump	Check for proper operation			
	Dechlor Analyzer	Check for proper operation			
	Non-Pot Pumps	Check Operating pump for proper operation			
Secondary	Secondary Scum Pit	Pump down & wash troughs (Each Shift)			
	Trickling Filters	Check that arms are traveling			
	Flight drive System	Check that both drive systems are operating			
	Secondary Pumps	Check for proper operation & check seal water tank level			
Dig 1	Digester #1	Check that Supernate pit isn't plugged			
	Compressor #1	Check for proper operation, oil as needed			
	Water traps	rain (Each Shift)			
	Digester recirc Pumps	Check operating pump			
	Heat Exchanger	Check & record temperature			
	Boilers	Check for proper operation			
Cl2	Chlorine Room	Check for leaks			
	Chlorine Feed Pumps	Check operating pump for proper operation			
	Chlorine Chemical Tanks	Check for leaks & check tank level			
Dig 2 & 3	Digester #2 & #3	Check that supernate pits aren't plugged			
	Compressor #2	Check for proper operation, oil as needed			
	Digester #2 recirc Pumps	Check operating pump			
	Heat Exchanger	Check & record temperature			

*Sample  
 Not a problem  
 as w/ list. but  
 should be separate  
 from log entries*

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From: (b)(6) CIV USA  
 Sent: Friday, March 09, 2007 9:03 AM  
 To: LEWIS PW Everyone  
 Subject: RE: To the PW Workforce  
 Signed By: (b)(6)

Sensitivity: Confidential

It has come to my attention that in December 2006 two personnel within the Department of Public Works reported they had received threatening notes through the mail and harassing telephone calls. An investigation into these matters has been initiated. It is not known if any Fort Lewis employees were involved. However, all personnel must understand that such behavior will not be tolerated. Anyone who knows any information about the threatening notes or telephone calls should immediately report it to the Military Police Investigator, (b)(6), who may be reached at (b)(6).

Anyone who observes or has information about any intimidating or threatening behavior by anyone in the workplace should immediately report it to the Office of the Provost Marshal, BLDG #2007C (MP Desk) which is open 24 hours a day or by calling (253) 967- 3107, 3108 or 3109 or by calling 911 if its an emergency.

No person, employee or manager, may interfere with another's ability to report such violations or seek immediate assistance. All employees are entitled to work in a safe and secure work environment.

(b)(6)  
 Deputy to the Garrison Commander  
 (b)(6) DSN 357

[http://ice.disa.mil/index.cfm?fa=service\\_provider\\_list&site\\_id=348](http://ice.disa.mil/index.cfm?fa=service_provider_list&site_id=348)

11-11-11



11-11-11

11-11-11

ADDRESS: PO BOX 334500, MAIL STOP 17  
 PUBLIC WORKS, ATTN: PHU-R, M/S-17  
 FORT LEWIS DEFENSE, ARMY  
 LOCATION: FORT LEWIS WA 98433-9500

W00021954  
 PERMIT NUMBER

001 A  
 DISCHARGE NUMBER

WASTEWATER FACILITY SOLD POINT  
 (SUBR 03)  
 F - FINAL  
 WASTEWATER FACILITY SOLD POINT

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	04	01		07	04	30

ATTN:                      WWT SUPERVISOR

\*\*\* NO DISCHARGE I... \*\*\*  
 NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 G C O RAW SEW/INFLUENT	4135	*****	( 26)	*****	*****	117	*****	( 19)	Ø		DAILY COMP24
	PERMIT REPORT NO AVG	*****			*****	REPORT NO AVG	*****				
BOD, 5-DAY (20 DEG. C) 00310 G C O EFFLUENT GROSS VALUE	579	1902	2852	( 26)	*****	16	45	( 19)	Ø		DAILY COMP24
	PERMIT REPORT NO AVG	MG AVG	WKLY AVG	LBS/DY	*****	NO AVG	WKLY AVG	MG/L			
PH	5.8	*****	*****		*****	7.2	*****	( 12)	Ø	*	
00400 G C O EFFLUENT GROSS VALUE	PERMIT REPORT NO AVG	*****	*****	***	6.0	*****	8.5				DAILY GRAB
	PERMIT REPORT NO AVG	*****	*****	***	MINIMUM	*****	MAXIMUM	SU			
SOLIDS, TOTAL SUSPENDED 00530 G C O RAW SEW/INFLUENT	5626	*****	( 26)	*****	*****	159	*****	( 19)	Ø		DAILY COMP24
	PERMIT REPORT NO AVG	*****			*****	REPORT NO AVG	*****				
SOLIDS, TOTAL SUSPENDED 00530 G C O EFFLUENT GROSS VALUE	663	1902	2852	( 26)	*****	19	45	( 19)	Ø		DAILY COMP24
	PERMIT REPORT NO AVG	MG AVG	WKLY AVG	LBS/DY	*****	NO AVG	WKLY AVG	MG/L			
NITROGEN, AMMONIA TOTAL (AS N) 00610 G C O EFFLUENT GROSS VALUE	*****	*****	*****		*****	*****	**	( 19)	Ø		SEMI-GRAB ANNUAL
	PERMIT REPORT NO AVG	*****	*****	***	*****	*****	REPORT	MG/L			
NITROGEN, NITRITE TOTAL (AS N) 00615 G C O EFFLUENT GROSS VALUE	*****	*****	*****		*****	*****	**	( 19)	Ø		SEMI-GRAB ANNUAL
	PERMIT REPORT NO AVG	*****	*****	***	*****	*****	REPORT	MG/L			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Without my permission or to submit</i> verified signature	TELEPHONE	DATE		
TYPED OR PRINTED			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):  
 \*\*  
 Reported on June & Dec DMRS / <sup>19 April Effluent was in violation reported and corrected</sup> system - normal range retained following day.  
 \*PH for 21 April Effluent was in violation, reported and corrected. Potential spill to

FACILITIES ENGINEERING OPERATING LOG

Installation

FORT LEWIS

MONTH

(Sewage - General)

Plant

Waste Water

April 2007

DATE	DAY OF WEEK	RAINFALL (INCHES)	TEMP. INFLUENT (C)	TEMP. EFFLUENT (C)	PH INFLUENT	PH EFFLUENT	TOTAL FLOW (MGD)	RAW SLUDGE PUMPED (GALLONS)	RAW SLUDGE		BOD				SUSPENDED SOLIDS				CL2 RESIDUAL (mg/L)	CL2 USED (GL)	DECHLOR (GL) USED	FECAL COLIFORM (COLONIES PER 100ML)	FUEL OIL USED (GALLONS)	DIGESTER GAS PRODUCED (FT <sup>3</sup> )
									TOTAL SOLIDS (%)	TOTAL VOLATILE (%)	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL						
1	S	0.03	14	13	6.8	6.7	5.06	26010			71	44	11	85	198	71	18	91	0.26			23		47200
2	M		13	12	7.0	6.8	5.34	59670			208	69	21	90	135	74	22	84	0.36			30		67300
3	T		14	13	6.8	6.4	4.95	35640			119	57	20	83	141	65	21	85	0.22			30		72600
4	W		14	13	6.8	6.3	4.92	37890			133	52	16	88	140	24	16	89	0.15			2		56100
5	Th	0.00	13	14	6.5	6.4	4.71	18720			138	61	17	88	157	52	19	88	0.10			23		49400
6	F	0.00	14	14	6.8	6.5	4.59	18900			82	55	15	82	165	64	26	84	0.13			2		46000
7	Sa	0.37	14	14	6.8	6.5	4.60	21150			61	45	15	75	142	63	21	85	0.18	300	0	2	0	46100
8	S	0.17	15	15	6.8	6.7	4.52	22590			53	38	13	75	121	39	16	87	0.20			2		44400
9	M	0.21	13	13	6.9	6.8	4.84	21780			101	50	15	85	117	46	15	87	0.23			50		39800
10	T	0.21	14	13	7.0	6.7	4.73	20700			150	50	16	89	124	53	18	85	0.18			23		41500
11	W		14	14	6.9	6.7	4.65	21960			115	51	17	85	134	46	16	88	0.20			8		42000
12	Th	0.03	13	13	6.9	6.8	4.73	22230	3.07	78.0	80	39	12	85	435	53	20	95	0.22			13		41100
13	F	0.12	13	14	6.8	6.7	4.57	22230			65	29	14	78	132	42	20	85	0.21			4		44900
14	Sa	0.07	14	14	6.9	6.7	4.03	24750			60	38	13	78	128	42	19	85	0.27	300	0	13	0	45100
15	S	0.00	15	13	7.0	6.6	3.99	29310			123	48	17	86	134	43	21	84	0.19			2		48600
16	M	0.04	14	13	6.9	6.6	4.45	30330			65	45	10	85	159	65	23	86	0.18			2		45800
17	T	0.03	14	13	6.9	6.2	4.21	32310			148	64	17	89	141	70	17	88	0.13			2		48100
18	W	0.21	15	14	7.0	6.1	4.06	30510			135	68	19	86	130	58	20	85	0.11			4		46000
19	Th	0.00	14	13	7.0	6.0	3.86	30240			153	63	19	88	128	54	18	86	0.08			2		46600
20	F	0.00	14	14	7.0	6.2	3.75	30240	2.83	77.1	97	56	15	85	199	57	24	88	0.06			2		44300
21	Sa	0.17	14	14	6.8	5.9	3.66	30870			80	48	16	80	145	49	21	86	0.10	300	8	2	0	44700
22	S	0.01	14	14	6.8	6.0	3.67	30240			135	53	19	86	130	49	22	83	0.12			11		39800
23	M	0.00	13	14	6.8	6.1	3.71	27630			179	66	21	88	176	47	20	89	0.14			23		36200
24	T	0.07	14	15	6.9	6.8	3.87	21780			163	69	21	87	164	52	17	90	0.22			30		38100
25	W		15	14	7.0	6.9	3.86	21780	3.01	79.3	179	68	18	90	203	51	12	94	0.11			80		42500
26	Th		15	14	7.0	7.0	4.04	21780			110	46	15	86	157	53	16	90	0.16			23		47000
27	F	0.01	16	15	7.1	7.0	3.87	21330			86	49	16	81	156	50	18	88	0.18			60		43100
28	Sa	0.00	15	15	6.9	6.9	3.22	22770			102	54	19	81	153	48	15	90	0.14	200	0	4	0	41700
29	S	0.00	15	15	7.0	6.9	3.29	21060			105	56	17	84	103	46	13	87	0.20			4		39800
30	M	0.06	16	15	7.0	6.8	3.28	21060			217	61	18	92	233	67	19	92	0.16			2		33500
Total		1.81					127.02	797460												1100	8		0	1369700
Max		0.37	16	15	7.1	7.0	5.34	59670			217	69	21	92	435	74	26	95	0.36	300	8		0	72600
Min		0.00	13	12	6.5	5.9	3.22	18720			53	29	10	75	103	24	12	83	0.06	200	0		0	33900
Average		0.08	14	14			4.23	26582			117	53	16	86	159	53	19	88	0.17	275	2	23	0	45657

xx 4/19 - according to our records the plant had not exceeded 2300 ft<sup>3</sup> of gas since we were first installed in 1972. A lot of gas was produced in 1972. Summary Report

\* 4/17, 4/18, 4/19, 4/20 exceeded bld removal due to potential spills to operations, investigations with no cause determined. Normal longer allow water. Effluents are estimated. Break in water supply

PREPARE: [Signature] DATE: 5/2/07 REVIEWING OFFICIAL: [Signature] DATE: PW ENGINEER: [Signature] DATE: 8 May 07

This was added on by Joyce & Note without calime to verify this was correct

Date	pH Buffer Check			Influent		Effluent		Initials (b)(6)
	Time	4.0	7.0	10.0	Time Sample Read	pH / Temp Readings	Time Sample Read	
1	0115	4.0	7.0	10.0	0120	6.8 114	0132	6.7 113
2	1000	4.0	7.0	10.0	1020	7.0 113	1025	6.8 117
3	1000	4.0	7.0	10.0	1010	6.9 114	1015	6.4 113
4	1015	4.0	7.0	10.0	1040	6.8 114	1045	6.3 113
5	1015	4.0	7.0	10.0	1020	6.8 113	1025	6.9 114
6	0835	4.0	7.0	10.0	0905	6.8 114	0912	6.5 114
7	0500	4.0	7.0	10.0	0570	6.8 114	0575	6.2 114
8	0400	4.0	7.0	10.0	0030	6.8 115	0035	6.7 115
9	0840	4.0	7.0	10.0	0950	6.9 113	0955	6.8 113
10	1045	4.0	7.0	10.0	1050	7.0 114	1055	6.7 113
11	1030	4.0	7.0	10.0	1045	6.9 114	1050	6.7 114
12	1035	4.0	7.0	10.0	1040	6.9 113	1045	6.8 113
13	0115	4.0	7.0	10.0	0122	6.8 113	0132	6.7 114
14	0130	4.0	7.0	10.0	0136	6.9 114	0147	6.7 114
15	1000	4.0	7.0	10.0	1020	7.0 115	1025	6.6 113
16	1030	4.0	7.0	10.0	1035	6.9 114	1040	6.6 113
17	1005	4.0	7.0	10.0	1010	6.9 114	1020	6.2 113
18	1045	4.0	7.0	10.0	1105	7.0 115	1108	6.1 114
19	1045	4.0	7.0	10.0	0955	7.0 114	1000	6.0 113
20	1000	4.0	7.0	10.0	1005	7.0 114	1010	6.2 114
21	0500	4.0	7.0	10.0	0530	6.8 114	0540	5.9 114
22	2320	4.0	7.0	10.0	2350	6.8 114	2355	6.0 114
23	0610	4.0	7.0	10.0	0615	6.8 113	0620	6.1 114
24	0950	4.0	7.0	10.0	1000	6.9 114	1005	6.8 115
25	1025	4.0	7.0	10.0	1030	7.0 115	1035	6.9 114
26	1015	4.0	7.0	10.0	1020	7.0 115	1025	7.0 114
27	1030	4.0	7.0	10.0	1035	7.1 116	1038	7.0 115
28	0210	4.0	7.0	10.0	0215	6.9 115	0225	6.9 115
29	0030	4.0	7.0	10.0	0037	7.0 115	0055	6.9 115
30	0930	4.0	7.0	10.0	1030	7.0 116	1031	6.8 115
	X	X	X	X	X	X	X	X

TEST PERFORMED IAW STD METHODS 4500H.

Lab Technician Review (b)(6)

Supervisor Review (b)(6)



DAILY STAFF JOURNAL OR DUTY OFFICER'S LOG

For use of this form, see AR 220-15; the proponent agency is Office of The Deputy Chief of Staff for Operations & Plans

PAGE NO.

NO. OF PAGES

ORGANIZATION OR INSTALLATION

WWTP  
 MNW-LEW-PWO MS17  
 FORT LEWIS, WA 98433-9500

LOCATION

BUILDING 7500

PERIOD COVERED

FROM		TO	
HOUR	DATE	HOUR	DATE
0730	April 17, 2007	0730	4/20/07

ITEM NO.	TIME		INCIDENTS, MESSAGES, ORDERS, ETC.	ACTION TAKEN	INL
	IN	OUT			
1	0730		Take over plant from Ron Plant OK (b)(6)		
2	0730	0900	(b)(6) - skimmed grease-T-VALUES OK, samplers OK - Plant OK, Plant temps & Phs for (b)(6)		
3	0930	1015	Plant Phs Raw 7.04 Prim 6.99 Sec 5.86 plant call 6.04 - will check T.F. for visible (b)(6) - will add caustic if we have it		
4	1015	1130	Sec int Phs 5.6 out 5.8 - no caustic coming soon (A ordering) Note aware - no visible problem w/ filters (pass septic/sour in lower layers of filter media)		
5	1200	330pm	(b)(6) - (b)(6) called in S/O for plugged grease line (vault) caustic put in prim sludge pit at 2:15pm - ST 3 1/2 ft (20-3), temp 97°, samplers OK, grease line unplugged (b)(6) here (hot water heater) ← S/O Blower off while (b)(6) is down in headworks, turnover to (b)(6) oil in the primaries (b)(6)	(b)(6) called in A S/O unplugged	

TYPED NAME AND GRADE OF OFFICER OR OFFICIAL ON DUTY

(b)(6) YD-02, SUPERVISOR

SIGNATURE (b)(6)

(b)(6)

DAILY STAFF JOURNAL OR DUTY OFFICER'S LOG

For use of this form, see AR 220-16: the proponent agency is Office of The Deputy Chief of Staff for Operations & Plans

PAGE NO.

NO. OF PAGES

ORGANIZATION OR INSTALLATION

LOCATION

PERIOD COVERED

FROM		TO	
HOUR	DATE	HOUR	DATE
		0730	4/20/02

ITEM NO.	TIME		INCIDENTS, MESSAGES, ORDERS, ETC.	ACTION TAKEN	INL
	IN	OUT			
1	1330	1530	Finish grease vault unplugged lock out AIRGAP unit for pump repair QS		
2	1530		Took over plant from (b)(6) 1ok		
3	1600	1730	Plant Tour ✓ list 1900 EPA Ph 5.8		
4	2200		Plant Tour ✓ list EPA Ph 5.8		
5	2230	2300	Turn over S.I 3' #2 dig 97° (b)(6) 2200 (b)(6)		
1	2200	2400	Graveyard - Pas - (b)(6) from Larry (b)(6) Sample Ck - So EV - Lab set up note recorded		
2	0200	0215	oiled #2 compressor		
3	0530	0730	gate - (b)(6) - 5.5' 4' - 20/3TSP - 97° Dig T.O. 2 (b)(6) (b)(6)		

TYPED NAME AND GRADE OF OFFICER OR OFFICIAL ON DUTY

SIGNATURE

DAILY STAFF JOURNAL OR DUTY OFFICER'S LOG

For use of this form, see AR 220-15: the proponent agency  
in Office of The Deputy Chief of Staff for Operations & Plans

PAGE NO.

NO. OF PAGES

ORGANIZATION OR INSTALLATION

WWTP

MNW-IEW-PWO MS17

ORTI, EWING, WA 98433-9500

LOCATION

BUILDING 7500

PERIOD COVERED

FROM

TO

HOUR

DATE

HOUR

DATE

0730

4/20/07

0730

ITEM NO.

TIME

IN

OUT

INCIDENTS, MESSAGES, ORDERS, ETC.

ACTION TAKEN

INT.

1

0730

Took over plant from (b)(6) - All OK

(b)(6)

(b)(6)

2

0600

0930

Ph's still low - added caustic to splitter

Added caustic

box - Adjusted Limitorgue to re-

ceive more to filters - will recheck

Ph's in 2 hrs - oil in the prim

(b)(6) - All OK - samplers OK, Plummer working on H.W. Tank

3

0745

Notified (b)(6) (follow-up), (b)(6) of our

pH situation, (b)(6) will follow up w/

a request letter to EPA

(b)(6)

4

0930

1130

Ph 6.2 - (b)(6) aware - skimmed

Adding last of caustic

grease - ran conc - T-values OK

backside OK (temp 97), gas L. OK, Pit OK

(b)(6) called in

for 7501 elec

5

1200

330 PM

(b)(6) - (b)(6) 3 1/2 ft (20-3), temp

(b)(6) disconnect motor from pump

97° (auto), samplers OK,

plant OK, took pump up to level

(b)(6)

TYPED NAME AND GRADE (b)(6)

(b)(6)

FB-02, SUPERVISOR

SIGNATURE

DAILY STAFF JOURNAL OR DUTY OFFICER'S LOG					PAGE NO.	NO. OF PAGES
For use of this form, see AR 220-15; the proponent agency is Office of The Deputy Chief of Staff for Operations & Plans						
ORGANIZATION OR INSTALLATION			LOCATION	PERIOD COVERED		
				FROM		TO
				HOUR	DATE	HOUR DATE
						0730 4/21/07
ITEM NO.	TIME		INCIDENTS, MESSAGES, ORDERS, ETC.	ACTION TAKEN		IN/L
	IN	OUT				
1	1330	1530	disconnect Power (b) airgap motor Pump			
2	1530		Took over Plant no Problems			
3	1600		Plant Touse ✓ list all OK			
4	1700		EPP Ph 6.03			
5	2000	2130	Plant Touse ✓ list TSP 20+3 SD 3 1/2 #2 dig <sup>2200</sup> 97° Ph 5.95 EPP			
6		2300	Turnover to (b)(6) — (b)(6)			
1	2200	2400	Graveyard - (b) - T.O. from (b)(6) (b) - Sample Chk - So P.V. - Data recorded - Lab set-up No Opt's changed			
2	0300		+ Values - old works			
3	0530	→ 0730	- T.O. (b)(6) (b) 3 - TSP 20/3 - 97° Dig T.O. 2 (b)(6) - no Opt's change (b)(6)			
TYPED NAME AND GRADE OF OFFICER OR OFFICIAL ON DUTY				SIGNATURE		

DAILY STAFF JOURNAL OR DUTY OFFICER'S LOG

For use of this form, see AR 220-15; the proponent agency is Office of The Deputy Chief of Staff for Operations & Plans

PAGE NO. 1

NO. OF PAGES

ORGANIZATION OR INSTALLATION

WWTP  
MNW-LBW-PWO MS17  
ORT LEWIS, WA 98433-9500

LOCATION

BUILDING 7500

PERIOD COVERED

FROM		TO	
HOUR	DATE	HOUR	DATE
0730	4/21/07	0730	4/21/07

ITEM NO.	TIME		INCIDENTS, MESSAGES, ORDERS, ETC.	ACTION TAKEN	INL
	IN	OUT			
1	0730		TOOK OVER plant from Ron - All OK (b)(6)		
2	0600	0830	(b)(6) - everything OK	Added caustic to splitter box	
3	0900	1130	lab calibration Read back - samples OK - T-VALVES OK		
4	1200	330pm	(b)(6) 4 ft (20-3), temp 97° (Auto), oil in the primaries, #3 T-VALVE plugged - open 5 extra (unplugged) turns to let it clear out turnover to (b)(6)		
1	1330	1530	comp CL <sup>17</sup> PM 2528614 + 2528571		
2	1530		Took over Plant from (b)(6) ALL OK		
3	1630	<del>1900</del> 2000	Plant tour ✓ list Took Ph EFI = low qt #1/200		
4	<del>1900</del> 2000	2130	Plant tour ✓ list		
5	2230	2300	Turn over to (b)(6) sl 4' 20+3 #2 dig 97°	(b)(6)	(b)(6)
1	2200	2400	(b)(6) - Lab setup - Samples; Sa. All data recorded - PC - Belt off - Turned to manual		
2	0530	0730	Lab - gate - (b)(6) - (b)(6) 3/2 - 20/3TSP - 98 Dig + 0.2 (b)(6) Left Belt in manual (b)(6)		

TYPED NAME AND GRADE OF OFFICER OR OFFICIAL ON DUTY

(b)(6) YD-02, SUPERVISOR

SIGNATURE

(b)(6)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **DC**  
 ADDRESS **PO BOX 307500, MAIL STOP 17  
 PUBLIC WORKS, AFZM-PWD-R, H/5-17  
 FORT LEWIS WA 98433-9500**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

OMB No. 2046-005

**WA0021934**  
 PERMIT NUMBER

**001 A**  
 DISCHARGE NUMBER

MAJOR (SUBR 03)  
 F - FINAL  
 WASTEWATER FACILITY SOLD POINT

FACILITY LOCATION **DEFENSE, ARMY  
 FORT LEWIS WA 98433-0500**  
 ATTN: **3** WWT SUPERVISOR

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	02	01		07	02	28

\*\*\* NO DISCHARGE !!!  
 NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 0 0 0 RAW SEM/INFLUENT		SAMPLE MEASUREMENT <b>4402</b>	PERMIT REPORT *****	***** (26)	*****	AVERAGE REPORT <b>116</b>	*****	***** (19)			DAILY COMP2
BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE		SAMPLE MEASUREMENT <b>616</b>	PERMIT REPORT 1902	***** (26)	*****	AVERAGE REPORT <b>16</b>	*****	***** (19)			DAILY COMP2
PH		SAMPLE MEASUREMENT *****	PERMIT REPORT *****	*****	<b>6.4</b>	AVERAGE REPORT *****	*****	***** (12)			DAILY GRAB
00400 1 0 0 EFFLUENT GROSS VALUE		SAMPLE MEASUREMENT *****	PERMIT REPORT *****	*****	6.0	AVERAGE REPORT *****	*****	***** (19)			DAILY GRAB
SOLIDS, TOTAL SUSPENDED 00530 0 0 0 RAW SEM/INFLUENT		SAMPLE MEASUREMENT <b>5547</b>	PERMIT REPORT *****	***** (26)	*****	AVERAGE REPORT <b>147</b>	*****	***** (19)			DAILY COMP2
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE		SAMPLE MEASUREMENT <b>634</b>	PERMIT REPORT 1902	***** (26)	*****	AVERAGE REPORT <b>17</b>	*****	***** (19)			DAILY COMP2
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALUE		SAMPLE MEASUREMENT *****	PERMIT REPORT *****	*****	*****	AVERAGE REPORT *****	*****	***** (19)			SEMI-ANNUAL GRAB
NITROGEN, NITRITE TOTAL (AS N) 00615 1 0 0 EFFLUENT GROSS VALUE		SAMPLE MEASUREMENT *****	PERMIT REPORT *****	*****	*****	AVERAGE REPORT *****	*****	***** (19)			SEMI-ANNUAL GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
*Look back at Prior DMR Reports for Signatures*  
 TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*This only to be signed by Paul Strube or PWD Director*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE  
 AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 \*\* Reported on June & Dec DMRS ANALYSIS OF N/WT/PH/DX For Feb-2007 Because of Prior Problems GH/PC  
 INFLUENT (Diesel - 2.09 mg/L) (Lube oil - 2.09 mg/L) EFFLUENT (A63 - Lube oil) (0.15 - Diesel)

NAME

ADDRESS

PG BOX 333500, MAIL STOP 17  
PUBLIC WORKS, AFZH-PNW-R, W/S-17  
FORT LEWIS WA 98433-9500

FACILITY DEFENSE, ARMY  
LOCATION FORT LEWIS WA 98433-9500

ATTN: WWT SUPERVISOR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

WA0021254  
PERMIT NUMBER

001 A  
DISCHARGE NUMBER

MAJOR (SUBR 03)  
F - FINAL  
WASTEWATER FACILITY SLOD POINT

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	02	01		07	02	28

\*\*\* NO DISCHARGE (---) \*\*\*  
NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NITROGEN, NITRATE TOTAL (AS N) 00620 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	*****	**	(19)			
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	REPORT			SEMI-ANNUAL	GRAB
NITROGEN, KJELDAHL TOTAL (AS N) 00625 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	*****	**	(19)			
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	REPORT			SEMI-ANNUAL	GRAB
FECAL COLIFORM, MPN EC MED, 44.50 31615 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	3	19	(13)			
	PERMIT REQUIREMENT	*****	*****	***	*****	200 MG GEO	400 WKLY GEO	100ML		DAILY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	4.5	*****	(03)	*****	*****	*****				
	PERMIT REQUIREMENT	7.6 MD AVG	*****	MGD	*****	*****	*****	***		CONTINUOUS	RECORD
CHLORINE, TOTAL RESIDUAL 00660 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.41	(19)			
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	0.5 DAILY MX	MG/L		DAILY	GRAB
BOD, 5-DAY PERCENT REMOVAL 81010 K 0 0 PERCENT REMOVAL	SAMPLE MEASUREMENT	*****	*****		85	*****	*****	(23)			
	PERMIT REQUIREMENT	*****	*****	***	80 MN % RMV	*****	*****	PER-CENT		ONCE/MONTH	CALCD
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENT REMOVAL	SAMPLE MEASUREMENT	*****	*****		88	*****	*****	(23)			
	PERMIT REQUIREMENT	*****	*****	***	80 MN % RMV	*****	*****	PER-CENT		ONCE/MONTH	CALCD
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					TELEPHONE		DATE		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

\*\* Reported on June & Dec DMRs

PERMITTEE NAME/ADDRESS (Include Facility Identification if Different)

DEFENSE, ARMY  
 PO BOX 339500, MAIL STOP 17  
 PUBLIC WORKS, AFZH-PNU-R, H/8-17  
 FORT LEWIS WA 98433-9500  
 DEFENSE, ARMY  
 FORT LEWIS WA 98433-9500

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

WA0021954 PERMIT NUMBER  
 001 A DISCHARGE NUMBER

MAJOR (SUBR 03)  
 F - FINAL  
 WASTEWATER FACILITY GOLD POINT

FORM 447-107-01  
 OMB No. 2040-0004

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	02	01		07	02	28

ATTN: WWTB SUPERVISOR

\*\*\* NO DISCHARGE : \_ : \*\*\*  
 NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
HYDROCARBONS, PETROLEUM 02180 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	*****	**	( 19 )			
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT	MG/L		SEMI-ANNUAL	SRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.				TELEPHONE		DATE			
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

\*\* Per Permit Reported with I/I Report



FACILITIES ENGINEERING OPERATING LOG

Installation

FORT LEWIS

MONTH

February 2007

(Sewage - General)

Plant

Waste Water

DATE	DAY OF WEEK	RAINFALL (INCHES)	TEMP. INFLUENT (C)	TEMP. EFFLUENT (C)	pH INFLUENT	pH EFFLUENT	TOTAL FLOW (MGD)	RAW SLUDGE PUMPED (GALLONS)	RAW SLUDGE		BOD				SUSPENDED SOLIDS				CL2 RESIDUAL (mg/L)	CL2 USED (GL)	DECHLOR (GL) USED	FECAL COLIFORM (COLONIES PER 100ML)	FUEL OIL USED (GALLONS)	DIGESTER GAS PRODUCED (FT <sup>3</sup> )		
									TOTAL SOLIDS (%)	TOTAL VOLATILE (%)	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL								
1	Th	0.00	13	12	6.9	7.0	4.53	14850			127	63	15	88	135	39	15	89	0.35			4			49600	
2	F	0.00	12	12	6.8	6.9	4.38	10530	3.72	85.3	90	62	13	86	129	34	13	90	0.28			30			38500	
3	Sa	0.09	13	13	6.9	6.9	4.15	10530			73	59	12	84	116	36	13	89	0.36	300	40	2			47100	
4	S	0.03	13	13	6.7	6.9	4.05	10350			101	52	14	86	90	25	10	89	0.37			23			45800	
5	M	0.00	13	12	6.9	7.1	4.26	10350			188	61	17	91	215	22	16	93	0.39			2			40500	
6	T	0.02	13	12	6.9	7.0	4.28	15030			145	76	20	86	150	45	14	91	0.41			2			41200	
7	W	0.19	13	14	7.0	6.9	4.96	11700			162	65	15	92	192	46	12	94	0.28			2			38400	
8	Th	0.01	13	13	6.9	6.8	4.88	13140			93	60	16	83	158	42	12	92	0.25			2			43900	
9	F	0.08	13	13	6.8	6.8	4.71	16110			93	60	14	85	162	52	15	90	0.30			4			49500	
10	Sa	0.09	13	13	6.8	6.9	4.37	20340	3.36	82.4	82	52	16	80	133	48	18	86	0.26	388	10	2			50400	
11	S	0.10	13	14	6.8	6.8	4.42	21510			* 67	42	15	* 78	147	37	17	88	0.27			2			44000	
12	M	0.00	13	13	7.2	6.8	4.50	21330			174	50	16	91	157	37	16	90	0.26			2			40400	
13	T	0.01	13	13	6.9	6.9	4.32	22680			159	69	22	86	148	62	21	86	0.13			2			44300	
14	W	0.14	13	12	7.0	6.5	4.46	25740	3.24	83.1	159	50	17	89	155	40	17	89	0.14			2			47700	
15	Th	0.21	13	14	6.8	6.4	4.64	22050			88	52	15	83	185	44	20	89	0.20			2			53600	
16	F	0.03	13	13	6.9	6.6	4.10	20970			122	60	17	86	159	52	23	86	0.30			2			54400	
17	Sa	0.17	13	13	6.9	6.8	3.80	21150			* 71	51	15	* 79	127	52	23	82	0.25	312	5	2	0			53800
18	S	0.07	12	13	6.8	6.9	3.89	18950			103	51	20	81	166	34	20	88	0.18			2			50600	
19	M	0.43	13	13	6.9	6.4	4.24	15300			179	40	19	89	123	29	21	83	0.28			2			39000	
20	T	0.66	12	12	6.9	6.5	5.55	20340			147	43	16	89	191	31	17	91	0.32			2			44700	
21	W	0.00	12	12	7.1	6.8	5.06	20340			133	61	20	85	155	59	18	88	0.22			2			45800	
22	Th	0.10	12	12	7.1	6.9	4.98	19440			123	53	18	85	119	49	19	84	0.20			2			49600	
23	F	0.05	12	12	6.8	6.8	4.81	20070	3.48	79.1	85	47	16	81	170	56	18	89	0.20			13			52000	
24	Sa	0.31	12	12	6.7	6.8	4.86	20070			* 53	37	14	* 74	102	29	16	84	0.26	375	20	23			55700	
25	S	0.14	12	12	6.8	6.8	5.09	18180			99	43	14	86	123	44	15	88	0.28			4			60100	
26	M	0.00	13	11	6.9	6.8	4.57	19440			140	49	15	89	128	45	16	88	0.31			2			47800	
27	T	0.14	13	11	7.1	6.6	4.60	20340			84	42	16	81	137	45	18	87	0.31			8			47200	
28	W	0.08	13	12	7.1	6.6	4.59	19350	3.31	80.9	97	59	19	80	142	45	17	89	0.31			23			49700	
Total		3.15					127.05	500180												1375	75		0			1326300
Maximum		0.66	13	14	7.2	7.1	5.55	25740			188	76	22	92	215	62	23	94	0.41	388	40		0			60100
Minimum		0.00	12	11	6.7	6.4	3.80	10350			53	37	12	74	90	22	10	82	0.13	300	5		0			38400
Average		0.11	13	13			4.54	17864			116	54	16	86	147	42	17	89	0.27	343.8	19		4	0		47368

*Supervisor/ Lab tech*

*Protocol*

(9)(d)	DATE	REVIEWING OFFICIAL	DATE	PW ENGINEER
	3/6/07	Division Chief/or	(9)(d)	

FACILITIES ENGINEERING OPERATING LOG										Installation FORT LEWIS										MONTH January 1998						
(Sewage - General)										Plant Waste Water																
DATE	DAY OF WEEK	RAINFALL (INCHES)	TEMP. INFLUENT (C)		TEMP. EFFLUENT (C)		pH INFLUENT	pH EFFLUENT	TOTAL FLOW (MGD)	RAW SLUDGE PUMPED (GALLONS)	BED POUR (GALLONS)	RAW SLUDGE		BOD				SUSPENDED SOLIDS				CL2 RESIDUAL (mg/L)	CL2 USED (POUNDS)	FECAL COLIFORM (COLONIES PER 100ML)	FUEL OIL USED (GALLONS)	DIGESTER GAS PRODUCED (FT 3)
			TOTAL SOLIDS (%)	TOTAL VOLATILE (%)	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)						FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL									
1	Th	0.69	15	15	6.5	6.1	3.41	13338						72	77	15	79	144	67	23	84	0.23	100	13	106	
2	F	0.06	13	12	6.4	6.9	3.12	13680						140	71	15	89	152	64	28	82	0.64	60	13	0	
3	Sa	0.11	13	14	6.5	6.0	3.16	12996						138	46	14	90	175	30	21	88	0.25	80	6	53	
4	S	1.12	14	14	6.4	6.1	3.15	10944						176	63	21	88	186	49	17	91	0.30	40	45	54	
5	M	0.26	14	13	6.5	6.0	4.24	11628						152	75	18	88	190	88	18	91	0.21	80	8	54	
6	T	0.03	14	14	6.4	6.3	4.41	19836						158	62	18	89	195	48	18	91	0.19	80	68	206	
7	W	0.01	13	14	6.3	6.3	3.95	12654						348	80	16	95	163	54	25	85	0.33	80	42	109	
8	Th	0.00	15	13	6.3	6.3	4.55	11970						246	68	17	93	296	53	22	93	0.27	80	40	109	
9	F	0.00	15	13	6.3	6.3	4.12	10602						157	76	14	91	167	45	19	89	0.28	80	14	100	
10	Sa	0.39	15	11	6.3	6.3	3.77	12312						87	63	19	78	169	26	19	89	0.29	80	4	193	
11	S	0.00	13	14	6.5	6.4	3.60	15732						84	41	14	83	35	19	9	74	0.26	40	5	150	
12	M	0.21	13	14	6.4	6.2	3.36	21888						213	59	19	91	154	40	21	86	0.24	80	26	102	
13	T	0.73	14	12	6.4	6.4	4.94	14706						180	53	16	91	220	44	20	91	0.16	60	42	158	
14	W	0.09	13	12	6.2	6.5	4.31	15732						174	71	23	87	195	57	21	89	0.20	60	170	106	
15	Th	0.78	14	13	6.3	6.3	5.05	4446						301	38	24	92	215	44	20	91	0.20	80	279	162	
16	F	0.26	14	13	6.3	6.3	4.58	13680						60	28	17	72	158	42	19	88	0.21	80	104	100	
17	Sa	0.06	14	12	6.4	6.4	5.66	14364						60	30	16	73	122	27	17	86	0.20	80	1400	284	
18	S	0.36	14	13	6.2	6.4	4.66	9234						128	16	13	90	90	30	26	71	0.18	80	10	148	
19	M	0.30	14	13	6.3	6.4	4.93	10944						132	37	17	87	138	32	15	89	0.17	80	580	51	
20	T	0.20	14	13	6.3	6.4	5.25	17784						141	116	19	87	145	50	15	90	0.24	80	710	0	
21	W	0.21	14	13	6.0	6.6	4.65	17100						155	49	18	88	166	89	17	90	0.23	40	2000	207	
22	Th	0.60	14	13	6.1	6.5	4.79	17442						137	33	15	89	210	17	20	90	0.31	80	820	106	
23	F	0.54	14	13	6.2	6.4	5.48	11628						60	23	19	68	189	24	26	86	0.26	80	29	107	
24	Sa	0.34	14	13	6.3	6.3	5.88	14706						63	20	12	81	226	12	12	95	0.20	80	47	108	
25	S	0.08	14	14	6.4	6.5	5.69	14706							20	17	67	126	29	22	83	0.24	80	85	108	
26	M	0.01	15	14	6.2	6.3	5.71	16416						176	23	15	91	179	49	22	86	0.26	100	103	0	
27	T	0.03	14	13	6.3	6.4	5.70	13338						176	36	16	91	139	62	18	87	0.30	100	210	108	
28	W	0.20	14	13	6.3	6.4	5.46	25308						176	38	21	88	145	44	19	87	0.28	60	104	55	
29	Th	0.00	16	17	6.3	6.2	5.59	32148						137	35	14	90	175	39	17	90	0.48	100	48	0	
30	F	0.00	15	13	6.2	6.1	4.94	27702						126	53	16	87	132	38	15	89	0.62	80	84	0	
31	Sa	0.00	14	13	6.3	6.2	4.93	14706						102	45	15	85	121	32	15	88	0.36	80	55	0	
Total		7.67					143.04	473670															2360		3044	
Maximum		1.12	16	17	6.5	6.9	5.88	32148						348	116	24	95	296	89	28	95	0.64	100		284	
Minimum		0.00	13	11	6.0	6.0	3.12	4446						60	16	12	67	35	12	9	71	0.16	40		0	
Average		0.25	14	13			4.61	15280						149	50	17	89	165	43	19	88	0.28	76.13	13	98	

	DATE	REVIEWING OFFICIAL	DATE	PW ENGINEER
	2/16/98		1/25/98	

**FACILITIES ENGINEERING OPERATING LOG**

Installation **FORT LEWIS**

MONTH **November 1997**

DATE	DAY OF WEEK	(Sewage - General)				RAW SLUDGE PUMPED (GALLONS)	BED POUR (GALLONS)	Waste Water				SUSPENDED SOLIDS						DIGESTER GAS PRODUCED (FT <sup>3</sup> )					
		RAINFALL (INCHES)	TEMP. INFLUENT (C)	TEMP. EFFLUENT (C)	TOTAL FLOW (MGD)			TOTAL SOLIDS (%)	TOTAL VOLATILE (%)	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL		CLZ RESIDUAL (mg/L)	CLZ USED (POUNDS)	FECAL COLIFORM (COLONIES PER 100ML)	FUEL OIL USED (GALLONS)	
1	D	0.00	18	17	6.4	6.3	2.54	17442			182			13	93	172	75	17	90	0.80	80	5	53
2	Q	0.00	16	17	6.3	6.3	2.47	18468			194	71	10	95	165	155	21	87	0.31	40	11	54	
3	M	0.18	18	17	6.5	6.4	2.80	15048	30732		171	77	13	92	239	50	21	91	0.25	60	55	0	
4	T	0.00	16	16	6.5	6.4	2.62	16074			201	36	10	95	194	54	18	91	0.20	80	114	162	
5	W	0.05	18	18	6.6	6.6	2.51	13338			216	69	12	94	228	59	22	90	0.22	0	61	108	
6	Th	0.17	17	17	6.4	6.3	2.86	9918			144	50	13	91	411	47	17	96	0.53	60	4	64	
7	F	0.00	18	18	6.6	6.4	2.68	13338			158	78	13	92	217	53	13	84	0.21	60	37	55	
8	Sa	0.00	18	17	6.5	6.5	2.35	12996			93	51	17	92	294	39	14	85	0.19	40	120	173	
9	S	0.00	18	17	6.6	6.6	2.46	12312			161	74	12	93	403	52	20	95	0.20	40	1250	217	
10	M	0.00	17	17	6.6	6.5	2.46	15390	300000		165	65	9	94	219	59	14	94	0.16	60	50	217	
11	T	0.00	14	13	6.7	6.5	2.12	17442			183	62	10	95	227	48	16	93	0.18	100	54	284	
12	W	0.00	15	18	6.9	6.9	2.51	19152			218	72	13	94	249	52	20	92	0.38	40	26	98	
13	Th	0.00	17	16	6.5	6.4	2.78	17442			187	65	11	93	272	63	23	92	0.25	80	4	101	
14	F	0.00	17	16	6.7	6.2	2.78	18468			84	80	10	88	270	54	22	92	0.28	80	15	102	
15	Sa	0.00	16	17	6.8	6.4	2.09	14022			90	57	12	87	214	40	20	91	0.23	40	93	52	
16	S	0.16	16	16	6.6	6.2	2.29	16756			214	83	11	95	233	55	19	92	0.25	40	76	53	
17	M	0.64	17	16	6.3	6.4	2.73	17784			206	92	18	91	300	65	24	92	0.22	80	8	53	
18	T	0.02	15	18	6.8	6.2	2.52	12654			270	86	13	95	302	90	20	93	0.18	40	70	376	
19	W	0.58	19	18	6.8	6.9	2.56	14364			202			0	372	104	34	91	0.26	80	1600	108	
20	Th	0.64	17	20	6.9	6.7	2.92	11628			318	71	22	93	303	83	32	89	0.13	80	4	109	
21	F	0.00	17	15	6.6	6.2	2.42	17100			166			9	254	101	22	91	0.17	80	21	109	
22	Sa	0.16	17	16	6.7	6.6	2.53	11628			96	54	16	83	227	58	27	88	0.19	40	8	109	
23	S	0.43	17	16	6.6	6.3	2.88	11628			169	75	17	90	205	79	30	85	0.12	60	51	107	
24	M	0.58	18	17	6.7	6.8	3.68	13580			233	64	19	92	295	78	32	85	0.17	100	41	108	
25	T	0.00	17	16	6.5	6.4	2.76	17100			228	72	14	94	234	70	20	91	0.34	80	12	108	
26	W	0.00	15	15	6.6	6.3	3.24	18468			117	78	13	89	275	68	20	83	0.24	40	8	106	
27	Th	0.00	14	14	7.0	6.4	2.50	16074			246	78	20	92	218	60	19	91	0.22	80	7	105	
28	F	0.30	16	16	6.4	6.4	2.96	17100			113	71	14	88	253	47	8	97	0.23	80	87	0	
29	Sa	0.32	15	16	6.5	6.5	2.73	15048			81	45	14	83	314	32	12	96	0.20	80	49	0	
30	S	0.03	16	15	6.6	6.5	2.79	24120			168	89	18	89	244	51	18	93	0.24	40	17	114	
<b>Total</b>		<b>4.35</b>					<b>79.37</b>	<b>465964</b>															
<b>Maximum</b>		<b>0.64</b>	<b>19</b>	<b>20</b>	<b>7.0</b>	<b>6.9</b>	<b>3.68</b>	<b>24120</b>			<b>387</b>	<b>92</b>	<b>22</b>	<b>97</b>	<b>411</b>	<b>155</b>	<b>34</b>	<b>97</b>	<b>0.80</b>	<b>100</b>		<b>376</b>	
<b>Minimum</b>		<b>0.00</b>	<b>14</b>	<b>13</b>	<b>6.3</b>	<b>6.2</b>	<b>2.09</b>	<b>9918</b>			<b>81</b>	<b>36</b>	<b>9</b>	<b>0</b>	<b>165</b>	<b>32</b>	<b>8</b>	<b>85</b>	<b>0.12</b>	<b>0</b>		<b>0</b>	
<b>Average</b>		<b>0.15</b>	<b>17</b>	<b>17</b>			<b>2.65</b>	<b>15533</b>			<b>182</b>	<b>68</b>	<b>14</b>	<b>92</b>	<b>260</b>	<b>65</b>	<b>21</b>	<b>92</b>	<b>0.25</b>	<b>62</b>	<b>5</b>	<b>110</b>	

**MONTHLY SUMMARY**

Average Percent Removal		
Unit	BOD	Susp. Solids
Primary	63	75
Secondary	80	68
<b>Overall</b>	<b>92</b>	<b>92</b>
SLUDGE DRAWN TO BEDS		
Max pH		7.3
Min pH		7.0
Average Total Solids		
Average Volatile Solids		
DRIED SLUDGE REMOVED		
Tons Removed		234
Beds Poured		
#'s 1, 5, 7, 8, 9, 11, 12, 16, 17, 20, 21		
REMARKS		
STARTED TO CLEAN #3		
Disposal Contract		
Cancelled		
NEW LANDFILL FLOW:		
2,191,200 / month / gallons		
73,040 gpd.		

PREPARED BY 

DATE **12/10/97**

REVIEWING OFFICIAL

DATE PW ENGINEER 

DATE **15 Dec 97**

FACILITIES ENGINEERING OPERATING LOG

Installation FORT LEWIS

MONTH October 1997

(Sewage - General)

Plant Waste Water

DATE	DAY OF WEEK	RAINFALL (INCHES)	TEMP. (C)		pH		TOTAL FLOW (MGD)	RAW SLUDGE PUMPED (GALLONS)	BED POUR (GALLONS)	RAW SLUDGE		BOD		SUSPENDED SOLIDS						CL2 USED (POUNDS)	FECAL COLIFORM (COLONIES PER 100ML)	FUEL OIL USED (GALLONS)	DIGESTER GAS PRODUCED (FT <sup>3</sup> )			
			INFLUENT	EFFLUENT	INFLUENT	EFFLUENT				TOTAL SOLIDS (%)	TOTAL VOLATILE (%)	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL					CL2 RESIDUAL (mg/L)		
1	W	0.63	19	19	6.5	6.9	2.85	21546				192	98	14	93	371	130	32	91	0.29	80					
2	Th	0.11	17	18	6.6	6.0	2.79	18126				197	71	4	93	260	63	21	92	0.15	80					
3	F	0.64	18	18	6.3	6.0	2.82	18468				212	69	9	96	295	68	23	92	0.28	40		24			
4	Sa	0.58	18	18	6.6	6.1	3.15	18126				99	47	6	94	230	48	20	91	0.16	100		52			
5	S	0.00	18	18	6.4	6.3	2.45	22572				159	48	7	95	201	72	15	93	0.19	60		4			
6	M	0.07	18	18	6.3	6.1	2.49	20862				216	87	11	95	199	206	14	93	0.14	80		4			
7	T	0.06	16	17	6.6	6.4	2.43	21888				123	71	14	89	293	76	25	91	0.22	60		4			
8	W	0.36	19	17	6.6	6.5	2.91	21204				234	68	14	94	215	83	21	90	0.54	60		4			
9	Th	0.08	15	17	6.5	6.3	2.76	21204				207	95	14	93	252	84	24	90	0.15	40		25			
10	F	0.12	16	18	6.8	6.4	2.50	28368				134	63	12	91	336	62	22	93	0.29	80		47			
11	Sa	0.00	18	18	6.7	6.5	2.50	20862				215	17	17	92	176	99	22	88	0.31	40		20			
12	S	0.05	18	18	6.5	6.4	2.90	22230				126		14	89	189	64	19	90	0.20	60		19			
13	M	0.02	18	19	6.6	6.5	2.19	23598				194	86	16	92	243	81	18	93	0.31	80		4			
14	T	0.08	18	19	6.7	6.5	2.45	33174				224	81	16	93	277	69	21	92	0.20	60		50			
15	W	0.00	19	18	6.8	6.3	2.27	31122				246	101	17	93	274	72	25	91	0.21	40		2000			
16	Th	0.00	15	15	6.6	6.3	2.78	30780				246	89	14	94	293	90	25	91	0.16	60		20000			
17	F	0.00	19	19	6.5	6.4	2.40	31122				123	72	13	89	299	83	27	91	0.25	120		4		240	
18	Sa	0.00	19	19	6.6	6.2	2.16	27360				173	75	9	95	288	54	20	93	0.23	40		4			
19	S	0.00	18	19	6.5	6.2	1.95	29160				207	87	12	94	299	56	20	93	0.27	40		32			
20	M	0.00	16	17	7.0	6.6	2.39	15732				288	110	14	95	303	70	19	94	0.28	40		210			
21	T	0.00	16	16	6.8	6.3	2.32	20520				300	104	14	95	291	40	15	85	0.16	80		4			
22	W	0.00	16	16	6.6	6.3	2.48	18468				159	74	8	95	369	65	17	95	0.20	40		64		99	
23	Th	0.00	16	16	6.6	6.3	2.39	20862				486	84	12	98	215	80	16	93	0.32	40		21			
24	F	0.00	17	16	6.6	6.4	2.49	7866				165	81	18	89	285	68	26	91	0.23	80		103			
25	Sa	0.80	17	16	6.7	6.4	2.14	26334				264	105	16	94	234	55	24	90	0.27	40		4		51	
26	S	0.00	17	16	6.8	6.3	2.12	25308	51464			230	86	13	94	228	32	22	90	0.36	40		5			
27	M	0.00	16	16	6.3	6.6	2.55	25308				250	84	15	94	295	31	22	93	0.30	40		98			
28	T	0.20	16	16	6.6	6.5	2.87	20178				240	101	20	82	287	64	17	94	0.55	0		4			
29	W	0.00	16	17	6.3	6.3	2.87	21888				225	75	16	93	286	45	25	91	0.10	140		12			
30	Th	2.08	16	17	6.2	6.4	4.35	21888				324		11	97	367	103	28	92	0.80	100		107		207	
31	F	0.22	16	17	6.5	6.5	2.88	22230	92196			182	99	24	87	360	64	30	92	0.50	80		6		106	
Total		6.08					80.21	708354													1920					796
Maximum		2.06	19	19	7.0	6.9	4.35	33174				486	110	24	98	380	206	32	95	0.80	140					240
Minimum		0.00	15	15	6.2	6.0	1.95	7866				99	47	6	87	176	31	14	88	0.10	0					0
Average		0.20	17	17			2.58	22860				214	83	14	94	275	73	22	92	0.28	61.94		5			26

MONTHLY SUMMARY

Average Percent Removal		
Unit	BOD	Susp. Solids
Primary	61	73
Secondary	83	70
Overall	94	92

SLUDGE DRAWN TO BEDS	
Max pH	7.1
Min pH	7.0
Average Total Solids	4.5%
Average Volatile Solids	59%
DRIED SLUDGE REMOVED	
Tons Removed	0
Beds Poured	
# 14, 15, 16, 18, 22	

REMARKS  
 NEW LANDING FLOW!  
 21,173,042  
~~7,528,235~~ GALLONS  
 Daily AVG = 70,098

PREPARED BY: (9)(a) DATE: 11/6/97 REVIEWING OFFICIAL: DATE: PW ENGINEER: DATE: 15 Dec 97

FACILITIES ENGINEERING OPERATING LOG

Installation FORT LEWIS  
Plant Waste Water

MONTH June 1997

DATE	DAY OF WEEK	RAINFALL (INCHES)	TEMP. (C)		PH		TOTAL FLOW (MGD)	RAW SLUDGE PUMPED (GALLONS)	BED POUR (GALLONS)	RAW SLUDGE		BOD		SUSPENDED SOLIDS						FUEL OIL USED (GALLONS)	DIGESTER GAS PRODUCED (FT <sup>3</sup> )			
			INFLUENT	EFFLUENT	INFLUENT	EFFLUENT				TOTAL SOLIDS (%)	TOTAL VOLATILE (%)	INFLUENT (mg/L)	EFFLUENT (mg/L)	INFLUENT (mg/L)	EFFLUENT (mg/L)	OVERALL % REMOVAL	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)			OVERALL % REMOVAL	CL <sub>2</sub> RESIDUAL (mg/L)	CL <sub>2</sub> USED (POUNDS)
1	S		16	15	6.5	6.4	5.64	14706				41	28	17	59	169	18	22	87	0.49	80	21	0	
2	M		16	16	6.0	6.4	5.57	24282				132	51	16	88	290	66	18	94	0.55	80	550	0	
3	T		16	16	6.2	6.6	6.08	17100				227	40	21	91	341	69	24	93	0.52	120	103	141	
4	W		15	16	6.1	6.2	5.45	22230				111	40	18	84	330	50	24	93	0.59	120	510	146	
5	Th		15	16	6.2	6.3	4.92	24282		4.32	73.1	239	37	20	92	421	56	24	94	0.51	80	102	150	
6	F		15	16	6.3	6.3	4.70	22572				212	51	22	90	285	55	26	91	0.50	80	1	102	
7	Sa		15	16	6.2	6.4	4.46	22230				48	27	14	71	538	25	42	92	0.46	60	114	0	
8	S		15	16	6.3	6.3	4.27	20862				108	46	15	86	483	56	24	95	0.54	100	7	0	
9	M		16	16	6.2	6.7	4.72	15732				192	51	18	91	206	73	24	88	0.49	60	680	0	
10	T		14	15	6.2	6.5	4.36	18810				150	60	23	85	256	64	25	90	0.42	60	0	0	
11	W		16	16	6.6	6.7	4.48	21204		4.61	55.3	104	69	33	68	151	82	39	74	0.48	120	0	0	
12	Th		16	16	6.3	6.5	5.05	20520				105	45	17	84	184	79	29	84	0.56	80	570	0	
13	F		18	18	6.3	6.3	4.35	22914	28925			102	47	9	91	126	20	21	83	0.60	80	39	0	
14	Sa		17	17	6.4	6.3	4.12	20520				74	44	9	86	77	52	19	75	0.51	40	14	0	
15	S		17	17	6.5	6.4	3.93	20862				109	50	7	93	110	46	12	89	0.60	80	97	0	
16	M		17	16	6.4	6.4	4.39	22230				45	50	7	85	145	51	19	87	0.68	80	250	0	
17	T		17	18	6.3	6.4	4.54	19494				181	51	13	92	273	72	15	95	0.65	80	4	0	
18	W		15	18	6.3	6.2	3.79	24966		3.51	90.0	168	60	7	96	250	54	19	92	0.68	60	4	0	
19	Th		15	13	6.2	6.3	3.63	22230				165	48	8	95	256	61	20	92	0.64	80	200	0	
20	F		16	17	6.4	6.2	3.93	36252				111	54	10	91	122	58	23	81	0.62	60	4	0	
21	Sa		17	18	6.1	6.3	3.45	23940				116	74	10	92	90	64	23	74	0.56	80	4	0	
22	S		16	17	6.2	6.2	3.13	23940				97	65	12	88	97	63	28	71	0.46	40	4	0	
23	M		16	16	6.3	6.3	3.64	28336				167	83	7	95	140	47	22	84	0.51	60	490	0	
24	T		16	18	6.3	6.4	3.65	38304				128	96	9	93	178	79	21	86	0.52	60	4	0	
25	W		16	16	6.5	6.4	3.65	17100		3.46	65.0	114	84	10	91	175	95	24	86	0.53	80	210	52	
26	Th		16	16	6.2	6.2	3.67	32490				149	53	8	95	84	61	23	73	0.44	40	190	0	
27	F		17	19	6.3	6.2	2.96	23598				125	69	10	92	100	79	21	76	0.39	80	7	0	
28	Sa		16	18	6.4	6.2	2.97	19494				85	41	7	93	85	61	18	79	0.42	40	10	0	
29	S		17	17	6.3	6.3	2.97	22572				75	56	6	92	90	53	19	79	0.42	40	10	0	
30	M		17	18	6.3	6.1	3.05	25308				152	90	11	93	116	61	21	82	0.42	40	25	0	
Total							125.82	689080													2180		591	
Maximum			16	19	6.6	6.7	6.08	38304				239	98	33	95	538	95	42	95	0.68	120			
Minimum			14	13	6.0	6.1	2.96	14706				41	27	6	59	77	18	12	71	0.39	40			
Average			16	17			4.19	22969				127	55	13	90	206	59	23	89	0.52	72	21	20	

MONTHLY SUMMARY

Average Percent Removal	
Unit	BOD Susp. S
Primary	56 71
Secondary	76 61
Overall	90 81

SLUDGE DRAWN TO BEDS	
Max pH	7.0
Min pH	7.0
Average Total Solids	4.37
Average Volatile Solids	57.2

DRIED SLUDGE REMOVED	
Tons Removed	0
Beds Poured	

#16

REMARKS

6/19/97 TWC  
6/16/97 NO REEF BLS INLOW  
RAINFALL NOT AVAILABLE  
REPORT DATE.  
NWLANDING FLOW DAILY  
68,615 gpm

PREPARED

(9/9)

DATE 7/9/97

REVIEWING OFFICIAL

(9/9)

DATE 11/4 Jul 97

(9/9)



FACILITIES ENGINEERING OPERATING LOG

Installation FORT LEWIS

MONTH

February 1997

DATE	DAY OF WEEK	RAINFALL (INCHES)	TEMP. (C)		pH		TOTAL FLOW (MGD)	RAW SLUDGE PUMPED (GALLONS)	BED POUR (GALLONS)	RAW SLUDGE (%)		BOD				SUSPENDED SOLIDS				CLZ USED (POUNDS)	FECAL COLIFORM (COLONIES PER 100ML)	FUEL OIL USED (GALLONS)	DIGESTER GAS PRODUCED (FT. 3)
			INFLUENT	EFFLUENT	INFLUENT	EFFLUENT				TOTAL SOLIDS	TOTAL VOLATILE	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL				
1	Su	0.17	12	11	6.6	6.5	8.00	14364				26	28	25	4	58	68	27	53	0.71	180	1010	203
2	Su	0.03	11	11	6.6	6.6	8.54	12654				50	41	19	82	55	21	6	88	0.65	160	44	52
3	M	0.00			6.3	6.4	8.21	15390				61	38	21	67	60	70	26	57	0.72	140	2100	108
4	T	0.00	14	15	6.8	6.3	8.55	14364				60	34	20	67	91	28	27	70	0.77	200	320	106
5	W	0.00	11	11	6.8	6.4	8.34	16756				64	38	15	77	94	35	22	77	0.61	100	62	126
6	Th	0.00	9	9	6.1	6.6	8.79	19152				54	48	13	76	33	14	13	61	0.75	140	1	126
7	F	0.23	10	10	6.7	6.6	8.06	17443				60	35	10	83	155	39	18	88	0.74	160	414	126
8	Sa	0.00	10	10	6.6	6.7	7.71	32490				45	32	13	71	32	29	12	63	0.78	160	131	100
9	S	0.00	10	10	6.6	6.6	8.31	19152				56	33	13	77	70	41	12	83	0.73	120	50	153
10	M	0.00	12	12	6.2	7.5	8.11				74	43	15	80	91	51	24	74	0.71	120	4	52	
11	T	0.58	12	11	6.4	6.2	8.96	17442				40	36	7	82	48	50	21	56	0.72	160	6	106
12	W	0.18	13	12	6.3	6.3	8.06	15048				82	51	18	78	75	30	12	64	0.73	260	14	106
13	Th	0.07	12	12	6.4	6.4	8.19	14022				59	32	14	76	89	41	33	63	0.68	180	99	0
14	F	0.84	12	12	6.3	6.5	7.79	14706				73	41	14	81	84	43	22	74	0.67	180	210	153
15	Sa	0.00	12	12	6.4	6.4	7.42	14022				60	37	10	83	76	44	20	74	0.77	120	13	52
16	S	0.11	12	11	6.6	6.6	9.23	14364				62	37	14	77	77	23	17	78	0.75	160	8	108
17	M	0.11	11	11	6.6	6.5	7.69				59	32	11	81	92	51	17	82	0.67	160	4	160	
18	T	0.57	13	14	6.6	6.3	7.90	26334				144	33	13	91	144	19	17	86	0.58	80	450	162
19	W	0.84	12	12	6.4	6.4	8.66	18810				144	46	11	92	201	41	23	89	0.68	200	25	100
20	Th	0.03	10	11	6.6	6.5	8.21	16756				106	37	14	87	199	31	22	89	0.68	160	4	53
21	F	0.00	12	12	6.4	6.6	7.35	18126				54	30	10	81	174	28	23	87	0.75	120	4	54
22	Sa	0.00	11	11	6.6	6.7	8.35	13338					20	9	0	186	32	9	95	0.70	160	4	54
23	S	0.00	10	10	6.6	6.7	8.12	18810				81	23	14	82	246	20	19	92	0.59	120	755	0
24	M	0.00	11	10	6.5	6.2	8.34	14364				174	37	13	93	599	38	23	98	0.68	140	25	49
25	T	0.00	13	14	6.3	6.1	8.10	17784				69	21	13	81	191	29	21	89	0.69	140	6	0
26	W	0.01	11	12	6.4	6.5	7.46	17442				72	42	13	82		30	22	83	0.63	120	61	0
27	Th	0.04	11	13	6.1	6.5	7.99	18126				78	28	14	82		27	22	86	0.69	140	138	130
28	F	1.05	16	15	6.3	6.5	7.95				65	40	15	77	53	27	31	42	0.70	180	4	143	
Total		4.86					228.43	431263													4260		2590
Maximum		1.05	16	15	6.8	7.5	9.23	32490				174	51	25	93	599	70	33	96	0.78	260		203
Minimum		0.00	9	9	6.1	6.2	7.35	12654				26	20	7	0	32	14	6	42	0.58	80		0
Average		0.17	12	12			8.16	17251				73	35	14	81	127	36	20	84	0.70	152.1	1010	93

MONTHLY SUMMARY

Average Percent Removal		
Unit	BOD	Susp. Solids
Primary	52	72
Secondary	61	44
Overall	81	84

SLUDGE DRAWN TO BEDS

Max pH	*
Min pH	*
Average Total Solids	*
Average Volatile Solids	*

DRIED SLUDGE REMOVED

Tons Removed	
Beds Poured	

\* No BODs Poured in Feb

REMARKS

Polymer treatment is effective. Operating closer to Design.

Average Daily Flow from NW Lagoon 56Kgal

PREPARED BY [Signature]

DATE 3/6/97

REVIEWED OFFICIAL [Signature]

DATE 10 MAR 97

PW ENGINEER [Signature]

DATE 10 MAR 97

FACILITIES ENGINEERING OPERATING LOG

Installation FORT LEWIS

MONTH January 1997

DATE	DAY OF WEEK	RAINFALL (INCHES)	TEMP. INFLUENT		TEMP. EFFLUENT		pH INFLUENT	pH EFFLUENT	TOTAL FLOW (MGD)	RAW SLUDGE PUMPED (GALLONS)	RAW SLUDGE		BOD		SUSPENDED SOLIDS		CL <sub>2</sub> USED (mg/L)	FECAL COLIFORM (COLONIES PER 100ML)	FUEL OIL USED (GALLONS)	DIGESTER GAS PRODUCED (FT <sup>3</sup> )				
			(C)	(C)	(GALLONS)	(%)					(mg/L)	(mg/L)	(mg/L)	(mg/L)	(%)	(mg/L)					(%)	(mg/L)		
1	W	1.08	14	13	6.5	6.7	9.96	14022					38	35	18	53	166	40	22	87	0.51	80	5600	98
2	Th	1.12	12	12	6.7	6.4	10.38	13680					30	30	14	53	37	31	19	49	0.59	180	480	101
3	F	0.39	12	13	6.7	6.6	13.42	8852					30	24	12	60	40	28	21	48	0.64	220	1256	154
4	Sa	0.28	12	13	6.6	6.7	9.13	10602					32		14	56	25	23	17	32	0.67	120	114	106
5	S	0.05	11	13	6.1	6.8	11.21	14022					42		18	57	42	32	18	57	0.74	200	110	106
6	M	0.46	11	11	6.7	6.3	11.31	12654					61	39	20	75	78	31	21	73	0.60	160	1	108
7	T	0.06	11	11	6.7	6.3	10.66	8550					72	28	16	78	76	30	19	75	0.62	120	1033	108
8	W	0.17	12	12	6.5	6.3	9.88	14364					63	39	16	75	66	38	16	76	0.66	160	300	108
9	Th	0.13	13	13	6.7	7.0	9.92	12654					54	32	14	74	81	38	15	81	0.64	160	210	109
10	F	0.13	12	13	6.5	6.3	9.50	21204					50	39	15	70	37	21	16	57	0.65	160	230	109
11	Sa	0.00	13	13	6.7	6.4	9.14	12654					51	24	10	81	57	27	16	72	0.72	170	46	109
12	S	0.00	13	13	6.8	6.5	9.22	11970					47	30	14	70	63	36	15	76	0.88	170	280	6
13	M	0.00	13	13	7.0	6.5	10.05	12654					61	48	15	75	77	52	17	78	0.64	220	570	2
14	T	0.00	9	9	6.6	6.4	9.36	14364					64	44	13	80	90	32	21	77	0.75	160	450	0
15	W	0.00	9	10	6.8	6.3	9.90	18468					67	38	20	70	99	49	18	82	0.70	160	495	161
16	Th	0.54	9	9	6.7	6.4	8.47	17442					28	26	12	57	71	34	22	69	0.79	140	118	108
17	F	0.65	12	11	6	6.4	9.96	11628					42	31	12	71	93	42	23	75	0.61	180	230	108
18	Sa	0.37	11	12	6	6.5	9.12	13338					32	22	10	70	70	25	19	73	0.73	160	300	109
19	S	0.48	12	12	6.7	6.5	9.49	8550					48	23	12	75	84	54	19	77	0.74	160	57	54
20	M	0.67	12	12	6.5	6.5	9.30	13338					47	28	13	72	87	50	16	82	0.70	160	250	0
21	T	0.19	14	12	6.5	6.5	9.66	12654					99	51	15	75	168	62	21	88	0.66	160	70	106
22	W	0.12	13	14	6.6	6.5	9.19	22572					55	33	14	75	72	38	24	67	0.73	160	20	0
23	Th	0.07	11	11	6.6	6.5	8.77	14680	30732				41	31	14	66	72	29	20	72	0.57	120	220	142
24	F	0.00	11	13	6.7	6.6	8.65	22572					72	35	9	87	95	33	21	78	0.76	140	4	350
25	Sa	0.00	11	12	6.8	6.6	9.6	15732					65	25	17	74	60	36	12	80	0.81	200	62	105
26	S	0.00	11	11	6.7	6.5	8.0	15732					23	18	16	30	67	34	20	70	0.68	160	22	149
27	M	0.43	11	12	6.6	6.8	8.07	15390					56	33	14	75	75	37	23	69	0.78	160	4	54
28	T	0.07	11	11	6.5	6.6	8.92	14022					76	30	16	79	92	39	25	73	0.82	160	17	162
29	W	0.22	11	11	6.6	6.5	8.20	11628					40	39	16	60	122	30	9	92	0.74	140	4	0
30	Th	0.49	11	11	6.6	6.5	8.48	12654					30	24	16	47	33	18	26	21	0.67	160	400	94
31	F	0.54	13	13	6.5	6.5	8.56	15048					75	34	16	79	119	47	23	81	0.67	180	14	195
Total		6.73					294.63	437734														4960		3391
Maximum		1.12	14	14	7.0	7.0	13.42	22572					81	51	20	87	168	62	26	92	0.82	220		350
Minimum		0.00	9	9	6.1	6.3	7.80	8550					23	18	9	30	25	18	9	21	0.51	80		0
Average		0.28	12	12			8.50	14120					51	32	15	71	78	36	19	75	0.69	160.6	5600	109

**MONTHLY SUMMARY**

Average Percent Removal		
Unit	BOD	Susp. Solids
Primary	37	53
Secondary	55	47
Overall	71	75
SLUDGE DRAWN TO BEDS		
Max pH	7.8	
Min pH	7.0	
Average Total Solids	4.66	
Average Volatile Solids	59.6	
DRIED SLUDGE REMOVED		
Tons Removed	0	
Beds Poured	0	
# 7		
REMARKS		
I & I problem Exceeded Permit % removed		

PREPARED BY: [Signature] (9)(d)

DATE: 2/7/97

REVIEWING OFFICIAL: [Signature]

DATE: [Blank]

PW ENGINEER: [Signature]

DATE: 2/5/97

FACILITY ENGINEERING OPERATING LOG										Installation FORT LEWIS					MONTH May 1996														
(Sewage - General)										Plant Waste Water																			
DATE	DAY OF WEEK	OVERALL (INCHES)	TEMP. INFLUENT (C)	TEMP. EFFLUENT (C)	pH INFLUENT	pH EFFLUENT	TOTAL FLOW (MGD)	RAW SLUDGE PUMPED (GALLONS)	BED POUR (GALLONS)	RAW SLUDGE		BOD				SUSPENDED SOLIDS				GL2 RESIDUAL (mg/L)	GL2 USED (POUNDS)	FECAL COLIFORM (COLONIES PER 100ML)	FUEL OIL USED (GALLONS)	DIGESTER GAS PRODUCED (FT 3)					
										TOTAL SOLIDS (%)	TOTAL VOLATILE (%)	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL	INFLUENT (mg/L)	PRIMARY EFFLUENT (mg/L)	FINAL EFFLUENT (mg/L)	OVERALL % REMOVAL										
1	TU		14	14	6.2	6.6	5.94	18458				52	33	7	87	98	43	19	81	0.37	140	34	0						
2	TH		12	12	6.5	6.9	6.34	17784	28925			52		7	87	22	36	20	9	0.40	100	62	0						
3	TH		13	13	6.4	6.8	6.76	25650				47	21	16	66	148		16	89	0.48	160	58	0						
4	SU		13	13	6.6	6.7	6.57	11970				46		13	72	7	14	13	-86	0.65	80	118	0						
5	SA		13	13	6.8	6.9	5.28	20520				24	42	12	50	46	39	7	85	0.42	120	380	0						
6	TH		14	14	6.3	6.7	6.50	12654				72	35	12	83	112	27	20	82	0.54	120	583	0						
7	TH		13	14	6.3	6.7	6.54	21204				52	24	10	81	90	17	16	82	0.51	120	216	0						
8	TH		14	15	6.4	6.6	5.18	10260				72	53	12	83	85	50	21	75	0.40	120	550	0						
9	TH		14	15	6.4	6.7	6.45	11970				70	33	11	84	124	41	23	81	0.38	120	250	0						
10	TH		14	15	6.3	6.5	6.10	20520				35	22	8	77	68	31	18	74	0.37	120	345	0						
11	SA		15	15	6.2	6.4	5.85	17100				67	41	10	85	88	24	18	80	0.49	120	310	162						
12	SA		14	15	6.3	6.6	5.74	0				67	42	12	82	112	24	18	84	0.30	120	1	0						
13	SA		14	15	6.2	6.4	5.90	21204				40	35	6	85	85	27	10	88	0.28	100	559	0						
14	TH		14	15	6.3	6.5	6.64	18810				90	33	15	83	92	42	27	71	0.27	140	1060	108						
15	TH		15	14	6.4	6.5	5.58	22572				111	75	13	88	112	56	30	73	0.39	120	26	56						
16	TH		14	14	6.2	6.5	5.93	30096				48		15	69	107	35	33	69	0.42	120	50	0						
17	FR		16	16	6.2	6.5	5.93	20520				96	76	25	74	79	58	32	59	0.36	120	530	103						
18	SA		16	15	6.6	6.6	5.41	18810				71	37	18	75	81	74	31	62	0.48	100	37	0						
19	SA		15	15	6.5	6.6	5.41	12654				89	65	21	76	62	71	35	44	0.19	100	780	0						
20	TH		14	14	6.1	6.4	5.32	0				113	71	22	81	62	86	27	56	0.30	160	1471	0						
21	TH		14	14	6.0	6.4	5.02	21204				106	75	24	77	121	42	33	73	0.59	100	776	106						
22	TH		13	13	5.9	6.4	6.07	16074				102	67	27	74	125	45	24	81	0.27	120	46	268						
23	TH		13	13	6.3	6.4	3.63	22914				65	53	14	78	112	24	18	84	0.82	160	108	108						
24	FR		14	15	6.4	6.5	5.45	18810				56	43	22	61	130	47	56	57	0.29	100	240	54						
25	SA		14	14	6.4	6.6	4.56	21204				32	42	8	74	136	29	14	90	0.32	140	90	54						
26	SA		14	14	6.6	6.6	4.61	17784				75	62	15	80	28	27	14	50	0.41	120	4	55						
27	SA		12	14	6.1	6.5	5.11	23940				100	76	16	84	113	87	24	79	0.70	120	58	163						
28	TU		14	15	6.1	6.4	5.07	0				125	62	17	86	112	37	21	81	0.76	140	4	217						
29	TH		14	15	6.1	6.5	5.38	21546				122	50	17	86	111	42	16	86	0.65	120	1	0						
30	TH		13	14	6.2	6.5	5.06	22572				111	59	13	88	118	45	22	81	0.56	120	4	0						
31	FR		13	15	6.1	6.5	4.56	21546				84	65	20	76	130	50	27	79	0.36	120	450	0						
Total							173.89	540360															3760		1454				
Maximum							16	16	6.8	6.9	6.76	30096			125	76	27	88	148	87	56	90	0.82	160		268			
Minimum							12	12	5.9	6.4	3.63	0			24	21	6	50	7	14	7	-86	0.19	80		0			
Average							14	14			5.61	17431			74	50	15	80	94	42	23	76	0.44	121.3		34	47		

PREPARED BY: [Signature] DATE: 6/6/96 REVIEWING OFFICIAL: [Signature] DATE: 11 JUN 96



FACILITY NAME/ADDRESS (Include Facility name/Location if different)

NAME DEFENSE ARMY

ADDRESS Rt. AF2H-DEF, H/S 17

P.O. BOX 339500

FORT LEWIS WA 98433-9500

FACILITY LOCATION

ATTN:

NATIONAL POLLUTANT DISCHARGE ELIMINATION ACT  
DISCHARGE MONITORING REPORT (DMR)  
(12-16) (17-19)

WA0021924

PERMIT NUMBER

001 A

DISCHARGE NUMBER

WATER

(SUDR 03) Form Approved

OMB No. 2040-0004

MAJOR Approval expires 10-31-94

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	03	01		90	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NO DISCHARGE

NOTE: Read instructions before completing this form

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (54-61)			QUALITY OR CONCENTRATION (45-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		
000, 5-DAY (20-DEG. C) 00310 0 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	3538		( 20 )		64		( 17 )	φ
	PERMIT REQUIREMENT	3000 AVG		LBS/D		3000 AVG		MG/L	
000, 5-DAY (20-DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	956	1052	( 20 )		17	19	( 19 )	φ
	PERMIT REQUIREMENT	1902	2852	LBS/D		3000 AVG	3000 AVG	MG/L	
PH	SAMPLE MEASUREMENT				6.0		8.4	( 12 )	φ
	PERMIT REQUIREMENT				6.5			PH	
00400 1 0 0 EFFLUENT GROSS VALUE SOLIDS, TOTAL SUSPENDED 00534 6 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	4714		( 20 )		85		( 17 )	φ
	PERMIT REQUIREMENT	3000 AVG		LBS/D		3000 AVG		MG/L	
00530 1 0 0 EFFLUENT GROSS VALUE SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1241	1329	( 20 )		22	24	( 17 )	φ
	PERMIT REQUIREMENT	1902	2852	LBS/D		3000 AVG	3000 AVG	MG/L	
00545 1 0 0 EFFLUENT GROSS VALUE SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT					0.1		( 20 )	φ
	PERMIT REQUIREMENT								
00545 1 0 0 EFFLUENT GROSS VALUE COLIFORM, FECAL MF, M-FL BROTH, 44-50 31610 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT					81	221	( 15 )	5
	PERMIT REQUIREMENT					200	700	ML/L	

EXECUTIVE OFFICER  
(Signature)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

TELEPHONE  
206 967-3191 96  
AREA CODE NUMBER YEAR

RELATIONS (Reference all attachments here)  
2 UNUSABLE Dir. Inspection ENDR.

Facility Name/Address (Include Facility Name/Location if different)

NAME: DEFENSE, ARMY  
 ADDRESS: Ft. AFZH-DEU, M/S 17  
 P.O. BOX 339506  
 FORT LEWIS WA 98433-9500

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

WADW 21554 (12-16) UOI A (17-19)  
 PERMIT NUMBER DISCHARGE NUMBER

WATER POLLUTION CONTROL PLANT (SUBK US) Form Approved 10345  
 F - FINAL OMB No. 2040-0004  
 APPROX Approval expires 10-31-94

FACILITY LOCATION  
 AITN

MONITORING PERIOD

FROM	YEAR	MO.	DAY	TO	YEAR	MO.	DAY
	90	03	01		90	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPL TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 1 0 0 EFFLUENT GROSS VALUE	6.6	*****	*****	( US)	*****	*****	*****	*****	1		
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE	0.49	*****	*****	NGD	*****	*****	*****	*****	13		
BOD, 5-DAY PERCENT REMOVAL 81010 K 0 0 PERCENT REMOVAL	73	*****	*****	PERCENT	*****	*****	*****	*****	26		
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENT REMOVAL	74	*****	*****	PERCENT	*****	*****	*****	*****	26		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 DIRECTOR OF PUBLIC WORKS  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.

OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE  
 206 96773191 96 04 19  
 AREA CODE NUMBER YEAR MO DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS. (Reference all attachments here)  
 1/2 BOD - 26 DAYS THIS MONTH 80% removal not met - due to I/I problems - I/I corrected

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME DEFENSE ARMY

ADDRESS PK, AF/H-DEU, M/S 17

P.O. BOX 339500

FORT LEWIS

WA 98433-9500

FACILITY

LOCATION

ATIN:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

WA021954

PERMIT NUMBER

002 A

DISCHARGE NUMBER

DUPLICATE STURMAREN SERIAL

(SUBK 03) Form Approved. 1-3-79

F - FINAL OMB No. 2040-0004

HAZAR

Approval expires 10-31-94

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	79	03	01		79	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS (54-61)	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
PH		*****	*****					( 12 )			
00400 1 0 0 EFFLUENT GROSS VALUE				***	MINIMUM			SU		DAILY	SPR
OIL AND GREASE		*****	*****		*****			( 17 )			
03584 1 0 0 EFFLUENT GROSS VALUE				***		DAILY AV	DAILY MX	MG/L		DAILY	SPR
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		*****			*****			( US )			
50050 1 0 0 EFFLUENT GROSS VALUE			REPORT		*****			MGD		DAILY	SPR
OIL AND GREASE VISUAL			*****		*****			( 94 )			
04000 1 0 0 EFFLUENT GROSS VALUE		REPORT		ES=1	*****					WEEKLY	SPR
				NC=0							

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

COLONEL, U.S. ARMY  
DIRECTOR OF PUBLIC WORKS  
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

967-3191 96-04-19  
AREA CODE NUMBER YEAR MO DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

less than 13 gallons of oil spilled to system on March 7 and to be prior to release.

1111

111111

(b)(6)  
A CIV USA

From: (b)(6)  
Sent: Wednesday, March 07, 2007 2:41 PM  
To: (b)(6) [ ] CTR USA; (b)(6) (b) E CIV USA  
Cc: (b)(6) (h) CIV USA; (b)(6) [ ] A CIV USA; (b)(6) (h)(6) CIV USA  
Subject: RE: NPDES permit

Guidance on DMR submission: *Note on Page 10 of Permit No. WA-02195-A*

After discussing with (b)(6) we will not report anything to EPA that is not specifically required by our permit, or by agreement in writing with a regulatory authority. If there is data on the operating report that meets the criteria above and needs to go forward in support of the DMR, please develop a report format that does not include biosolids, bed pours, investigative samples, rainfall, or other superfluous information, and send that. If there is no regulatory obligation, stop sending the operating report altogether.

Thanks, (b)(6)

-----Original Message-----

From: (b)(6) [ ] CTR USA  
Sent: Wednesday, March 07, 2007 12:07 PM  
To: (b)(6) (b)(6) E CIV USA  
Cc: (b)(6) CIV USA  
Subject: RE: NPDES permit

FYI - on the biosolids issue - even though (b)(6) is talking the most about this subject because of recent discussions; several of (b)(6) operators have touched on this topic as a major concern in conversations with me and some of their concern is focused on oil issue.

I know it's not our job to do training or meet with them I know... But maybe it could wait (we just let (b)(6) know we will arrange it) and they all could be instructed at one time on composting operation. I think it would be greatly beneficial.

-----Original Message-----

From: (b)(6) (b)(6) E CIV USA  
Sent: Wednesday, March 07, 2007 11:59 AM  
To: (b)(6) CTR USA  
Cc: (b)(6) CIV USA  
Subject: RE: NPDES permit

(b)(6)

I will ask (b)(6) to go out to the WWTP with me and we will discuss biosolids and composting requirements with (b)(6) (like you and I did with the NPDES permit requirements yesterday).

As for the operating log, that is not our call. I will talk with (h)(6) and [ ] about it once (h)(6) returns.

(b)(6)

-----Original Message-----

From: (b)(6) [ ] CTR USA  
Sent: Wednesday, March 07, 2007 9:18 AM  
To: (b)(6) (b)(6) E CIV USA  
Subject: RE: NPDES permit

(b)(6)

[ ] called this morning. (h) agreed (h) was wrong about DMR regarding biosolids. (h) appreciates you pointing this out and going to all the work to explain it. (h) says (h) is trying to do what is right without (enough?) supervisory oversight.

However, (h) is still adamant that whatever samples are collected and analyzed need to

kept at the plant. Furthermore, that we should be reporting when we know we have a problem like with the biosolids. (b) is adamant that the biosolids are contaminated and need to be disposed of as waste and not for land application or composting.

I said Fort Lewis is working on the problem, that we have not land applied, and I did not know what they were doing on the composting side other than what is reported in Biosolids Annual Report (pilot study, working on getting a permit). I also mentioned that we are working on the issue. We were conducting the extra sampling biosolids monitoring and that we are working on developing and implementing a pretreatment program.

(b)

(b)(6) still thinks that the biosolids information should be reported and that the correct place was on the operating log that is attached to the DMR.

I reminded (b) that we did report compliance data with the biosolids annual report. I told (b) I would pass along (b) opinion to you.

Hence, I do not think we (you, (b)(6) and I) are done with this subject. I'm not sure where the operating log requirements come into play.

(b)(6)





(b)(6) A CIV USA

From: (b)(6) (b)(6) CIV USA  
Sent: Tuesday, March 06, 2007 3:51 PM  
To: (b)(6) A CIV USA; (b)(6) (b)(6) E CIV USA; (b)(6) CIV USA; (b)(6)  
(b)(6) CTR USA  
Cc: (b)(6) (b)(6) CIV USA; (b)(6) (b)(6) CIV USA; (b)(6) (b)(6) CIV USA  
Subject: FW: NPDES permit

Importance: High

All,

Due to the feedback my staff was getting from the WWTP operators, I decided to have the EPA comment on the four topics listed below. (b)(6) and I shared (b)(6) responses with (b)(6)

This month, (b)(6) had put a comment on the DMR that the results from the biosolids would be included next month. After showing (b)(6) the NPDES permit and this email from (b)(6), (b)(6) understands the clarification that biosolids are not reported on the DMR. This afternoon, (b)(6) placed a strike through on the DMR comments referring to the biosolids.

Also, (b)(6) have been including the influent and effluent results for TPH-Dx on the DMR. According to the EPA, we are only required to report on what is in the NPDES permit, which means we are only required to report the effluent (except for items where the influent is required to conduct a % removal calculation). *interpretation of Chae & Joyce*

This should clarify NPDES permit requirements. If anyone has any questions, please contact me.

(b)(6)

-----Original Message-----

From: (b)(6) (b)(6) *Compliance POC*  
Sent: Tuesday, March 06, 2007 2:39 PM  
To: (b)(6) (b)(6) E CIV USA  
Cc: (b)(6) CIV USA  
Subject: Re: NPDES permit

(b)(6)

Please see my reply below highlighted in Bold for each of your four points. I read over the permit to address your points, but I do not want to dismiss that possibility that I may have missed something. The bottomline is this: your obligation in complying with the permit is to do no less and no more than what the permit specifically requires. I strongly encourage you and the others at Fort Lewis who have responsibility to comply with the NPDES permit to study it and understand what it requires. Again, your obligation is no more and no less than what the permit says.

Chae

(b)(6)

*should have been asking Permit POC or Correspondence POC*

(b)(6) (b)(6) E CIV USA"

(b)(6) .army.mil>

03/06/2007 01:40 PM

(b)(6) /R10/USEPA/US@EPA

(b)(6) B CIV USA"

(b)(6)

NPDES permit



(b)( ),

As I explained there is some disagreements within our internal staff regarding requirements on the NPDES permit # WA-002195-4. I ask your assistance to put in writing certain topics that have been raised. I have summarized our conversation:

1. Biosolids are not reported on the DMR. The biosolids permit is separate from the NPDES permit.

The DMR should only include the results of the monitoring required by the permit. Biosolids information is not required by the permit.

2. Only effluent results are required to be reported on the DMR. Influent results and internal process/engineering results are not required to reported on the DMR.

Yes. The permit specifies that final effluent must be monitored. The only exception is for BOD and TSS relative to determining percent removal. To calculate percent removal, influent samples must be taken. However, again the permit only requires that the actual percent removal calculated number be reported in the DMR.

3. Any effluent discharge that may be expected to cause or contribute to a violation that is unlikely to be detected by a routine sample should be reported on the DMR.

II.E. of the permit states in part as follows:

Permittee shall collect additional samples at the appropriate sampling points and analyze them for the parameters limited in Part I. Table 1 of the permit, whenever any discharge occurs that may reasonably be expected to cause or contribute to a violation that is unlikely to be detected by routine sample...

A point to consider is that above permit requirement is for parameters listed in Part I. Table 1. Parameters listed include BOD, tss, fecal, and TRC.

4. Per the NPDES permit, there shall be no discharge of floating solids, visible foam in other than trace amounts, or oily wastes which produce a sheen on the surface of the receiving water.

Yes, this requirement is found in Part 1.C.

Please respond to this email with your concurrence on the summary.  
Thank you.

(b)(6)  
Water Program Manager  
Fort Lewis Public Works  
Environmental Division  
Tel: (b)(6)  
DSN: (b)(6)  
Fax: (b)(6)

How are we doing? Rate our service at:  
[http://ico.disa.mil/index.cfm?fa=card&service\\_provider\\_id=101425&site\\_id](http://ico.disa.mil/index.cfm?fa=card&service_provider_id=101425&site_id)



OPS

*Samples of How Log  
Books will appear*

Log Book

*This is Bound  
Log book*

# RECORD

START date: 1/15/07

END date:

20 Jan 07 Greenfield 2200-0730

(b)(6)

2230 CK T-valves  
CK boiler  
CK Ch

0020 Collect Samples

0130 CK PCT  
Secondary  
PH's

CK gramma baggs  
CK Peakers  
CK Ch & 2 Ch antipers  
CK Ch Sample Pump  
CK T-valves  
CK Recirc valve  
CK Thrusters  
CK air pump  
CK belt conveyor  
CK fine screen  
CK bag & gut bins  
CK gas compressor  
CK Sludge Recirc Pump  
CK boiler  
CK Ch Pump -

0415 Lab

0600

Pump Secondary  
CK Peakers  
CK Peakers  
CK Thrusters  
S.T. 1 1/2' Top 200  
CK belt conveyor  
CK air pump  
CK bag & gut bins  
CK fine screen  
CK gas compressor

0720

turnover studies  
S

(b)(6)

0600-330pm Jan. 22, 2007 days Monday (b)(6)

0600-0830 (b)(6) - everything OK - over to ALs for info on washing down drying beds - wash solids to center - water will drain out - beds will pick up solids from center - do 1 (one) bed a day to <sup>the</sup> limit solids going back to plant 0900-1130 (b)(6)

1200-330pm (b)(6) - SJ 2 1/2 ft (20-1), temp 99 (Auto), samples OK, turnover to (b)(6) - Per (b)(6) - training on skidder at 200pm (b)(6) Heavy solvent smell - roof cleaners may be spraying again, oil in the primaries (b)(6)

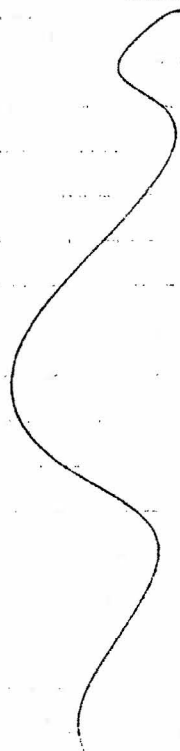
(b)(6)

1-20-07 0600-1530 Days

(b)(6)

0800 - Checked P/H  
1000 - Checked P/H - Contractor from W/C showed up to  
move equipment for chucker - wanted to do work  
on beds would not let him - being here by myself  
on weekend - not given any notice by contracting  
or (b)(6) that contractors are permitted here  
on weekends. Never been unless changed  
by new management. - let Coliforms

1300 - Checked (b)(6) 2 1/2 ST - TSP/2041 Dig #2 97° - Pumped  
See / filled compressor w/ oil worked deck of skidwoks  
1430 Turnover to (b)(6)



(b)(6)

1330-2340 1-27-01

(b)(6)

1400 Assist w/s with plugged sewer 6538

1600 check pit sweep bed # 12 1900 check pit

2200 check pit 758 20 + 1 SJ 1 1/2 @ 2 dig 97'

2300 turnover

Keep an eye on the prim. =

(b)(6)



~~1-28-07~~ (b)(6)

1-28-07 Grave

(b)(6)

2:00 - 2:40 PL, hole Setup, Samples etc, Se PL, Data Recorded

0:30 (b)(6) - grab samples taken

0:60 - 0:50 PL, LAA 53 (74) - T-1 30/11 - not listed (b)(6)

of complex (pic) condition - 97 (b)(6)

(b)(6)

← (b)(6) - take grab samples every hour if it quits working (b)(6)

-OK- (b)(6)

(b)(6)

(b)(6)

Called

(b)(6)

1-19-07

Needed

(b)(6)

#

1330 - 2300 Lieder's  
1330 Plant Check

1500 Dump Grease Can

1600 P.M.

1700 Plant Check

1800 P.M.

2100 Plant Check S. 2 1/2

TSP 20#l Digester 98" (Dosing  
Pumps, Skim Pump Sec. 2 P.L.

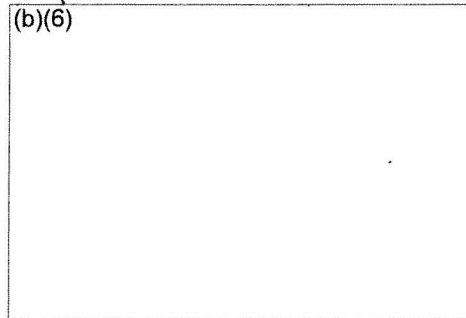
Lots of Sids

Turn Over To

(b)(6)

# 1 Lots of Air by Non Pot  
Swit Auger Pot on Making Noise  
(Grease) # 2 Swit Auger  
Still Down

(b)(6)





(b)(6)

CIV USA USAIMA

From: (b)(6) (b)(7) E CIV USA USAIMA  
 Sent: Thursday, December 07, 2006 3:37 PM  
 To: (b)(7) A CIV USA USAIMA; Barto, (b)(7) E CIV USA USAIMA  
 Cc: (b)(6) CIV USA USAIMA, (b)(6) CIV USA USAIMA; (b)(6) (b)(6) CIV USA USAIMA  
 Subject: DMR documents

All,

The Facilities Engineering Operating Log is submitted with the DMR each month. After speaking with the involved parties, it has been decided that the following signatures will be provided on the log:

Prepared By: (b)(7) (backup is (b)(7))

*Supervisor is preparer not lab Tech*

Reviewing Official: (b)(6) (backup is (b)(6))

*is not (b)(6) but division Chief or (b)(6)*

PW Engineer: (b)(7) (backup is (b)(7) or (b)(6))

And as status quo, (b)(7) or (b)(6) still sign the (b)(7)

*to not Note but Authorizing*

(b)(6)  
 Water Program Manager  
 Port Lewis Public Works  
 Division

*Principal Executive Officer which*

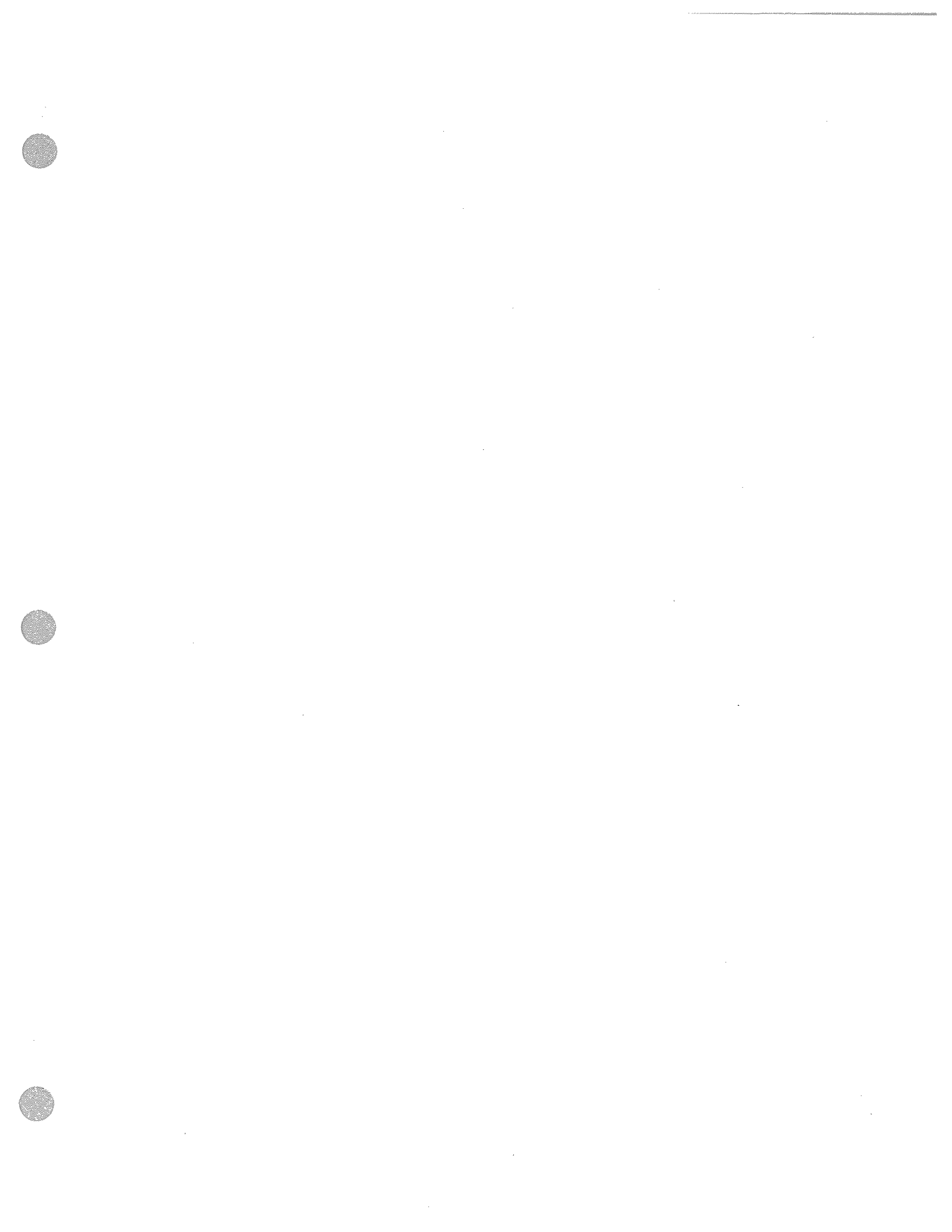
(b)(6)

*is (b)(6)*

*or (b)(6)*

*Samples of Present & Prior DMR Reports  
and Monthly Reports enclosed*

*Refer to Page 19 of Permit WA-00219-4  
Signatory Requirements*



*Building no water pipe questions*



DEPARTMENT OF THE ARMY  
INSTALLATION MANAGEMENT AGENCY  
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT LEWIS  
BOX 339500, MAIL STOP 1AA  
FORT LEWIS WASHINGTON 98433-9500

REPLY TO  
ATTENTION OF  
IMNW-LEW-ZA

15 September 2006

To all North Fort Lewis units, agencies and housing residents:

I'm writing to make sure you're aware of the facts regarding tests on our water systems on Fort Lewis. Rumors are often our greatest enemy, and I wanted to be sure you got the right information, from the right people, about your water supply.

First things first - the water you, your family and your co-workers are drinking at Fort Lewis is safe and meets all federal and state regulatory requirements. We know this because of independent test results obtained this week.

All 12 water system reservoirs that serve Fort Lewis were recently tested for the presence of polychlorinated biphenyls (PCBs), a potentially hazardous chemical. PCBs were detected in the two reservoirs that serve North Fort Lewis. No PCBs were detected in the water anywhere else on Fort Lewis. Although the amounts detected in the two North Fort Lewis reservoirs were very small, they were above the Environmental Protection Agency's allowable levels.

Nothing is more important than the health and safety of our community. Therefore, we conducted more tests on the water where it emerges from our water system at the tap, at multiple locations on North Fort. In those tests, no PCBs were detected - meaning that the water is safe for all uses. We've also consulted with the Washington Department of Health, and they agree with our assessment and our action plan.

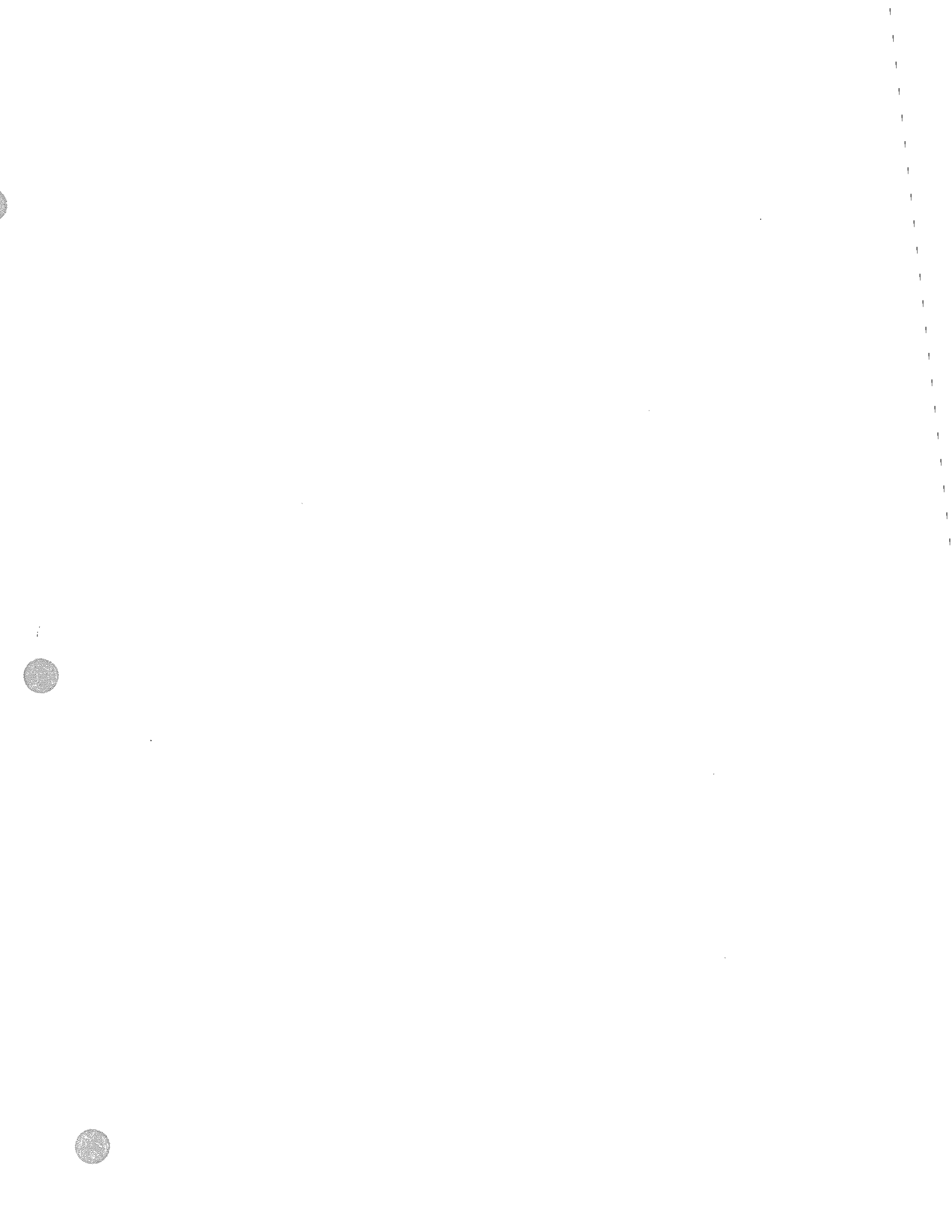
While our water supply is safe, we will be taking these two reservoirs off-line soon to effect repairs. While this process takes place, it is possible that we may direct some water conservation measures to ensure that our water pressure remains high enough to fulfill emergency requirements.

If you still have questions or concerns about your water, you are invited to attend a public meeting at 6 p.m. Tuesday, September 19, 2006, at the North Fort Youth Center on American Lake Avenue. Experts will be on hand to field your questions.

Please know that your well-being is first and foremost in our minds, and thank you for all you do on behalf of the Fort Lewis community.

Sincerely,

*CA* (b)(6) *DSC*  
CYNTHIA A. MURPHY  
COL, AV  
Commanding





Suggestions - presented by [redacted] to [redacted]

(b)(6)  
[redacted]

5-23-06

SUGGEST YOU REPLACE  
PEERLESS PUMPS # 2 + # 3  
WITH THE SAME SIZE UP-TO-DATE  
TECHNOLOGY PUMPS, INSTEAD OF  
SPENDING TIME & MONEY ON  
OUT-OF-DATE PUMPS THAT YOU  
HAVE TO MAKE PARTS FOR.

ALSO SUGGEST BORING A HOLE  
(ABOVE BYPASS WATER LINE TO DETENTION TANKS)  
IN THE SIDE WALL IN THE S.E.  
CORNER OF # 1 PEERLESS PUMP  
+ PUT IN A PART-LINK-SEAL  
OR A CORE-N-SEAL (ADJUSTABLE  
+ OR REMOVABLE). A 1 1/4" NON-ROTABLE  
WATER HOSE COULD THEN BE USED  
TO WASH SCUM BLANKET TO  
OPENING USED FOR VACTOR TRUCK. THEREAS  
YOU WOULDN'T HAVE A PROBLEM GETTING  
ALL THE SCUM BLANKET OUT OF  
PEERLESS PIT.

(b)(6)  
[redacted]

5-23-06

(b)(6)

SUGGEST YOU GET  
TRICKLING FILTERS CORRECTED  
TO INCREASE PH ON EFFLUENT  
SO YOU ARE NOT BREAKING PERMIT  
ON PH PARAMETERS.

SUGGEST WE GET GAS DETECTORS  
THAT WORK DOWN AT SEWAGE PLT.  
SO THE GRIT CHAMBER AERATION BASIN  
AUGER PROBLEM CAN BE FIXED.

(b)(6)

5-11-66

(b)(6)

ON THURSDAY MORNING, MYSELF [REDACTED] DISCUSSED THE  
 WHETHER CLASS I AM SUPPOSED TO GO TO  
 IN OLYMPIA THAT WAS APPROVED FOR  
 FUNDING BY THE FEDERAL GOVT. [REDACTED]  
 AFTER FURTHER DISCUSSION, AS I REALIZED  
 I WOULD PAY FOR THE CLASS  
 MYSELF BECAUSE IT WOULD DISRUPT  
 + CHANGE MY SCHEDULE TO [REDACTED]  
 FOR JUST 7 DAYS THE CLASS  
 WOULD ALSO COST ME A LOSS OF [REDACTED] PER  
 JUST A 1 DAY [REDACTED] CLASS

(b)(6)

5-24-06  
0750 HRS

(b)(6)

As per private discussion  
in the conference room between  
(b)(6) + myself (b)(6) we  
discussed several topics about leadership  
qualities + opinions. We disagreed on  
all topics. I asked him to have  
a meeting with all sewage plant employees  
at the ~~same~~ <sup>same</sup> time but you (b)(6) wouldn't  
do it. I said all employees can't be  
all wrong + the supervisor correct on your  
leadership skills. Something is wrong here!

(b)(6)

1000pm-0830 MAY 23-24, 2006 Game Tuesday  
1000pm-MIDNIGHT (b)(6) - put seed on, checked Peerless level  
0030-0230 (b)(6) - changed carbons, took readings 0300-0500  
(b)(6) everything OK 0530-0830 (b)(6) - (b)(6) 3 1/2 ft (25-1),  
temp 96° (Auto), #1 sec valve closed to bring  
peerless level up, turnover to days (b)(6)

0820

(b)(6)

from Centennial here to look at  
guard rail projects RRP

0850 Meeting with (b)(6) with (b)(6) on  
respecting supervisor's leadership &  
decision making. We disagreed on every topic.

(b)(6)



## MEMORANDUM FOR RECORD

TO: (b)(6)

SUBJECT: Monthly DMR report

(b)(6) since we do not have e-mail capability between the two Plants currently, I'm writing this memo to you to remind you of our discussion in the past about the chain of signatures required on the DMR before it's sent to the EPA. My signature is second on the chain after yours as preparer and then (b)(6) is the third and final signature before being sent off to the EPA. Because of the problems at the plant and the DMR being an important Document outlining system problems to the EPA, I need you to insure that the DMR is routed through the chain properly in the following order.

#1. Preparer ( Lab Tech. )

#2. Supervisor ( me )

#3. Environmental Engineer (b)(6)

The need for your cooperation is very important in this matter, as everyone is experiencing difficult times adjusting to the new changes occurring in job descriptions, Supervision and an Organizational readjustment. The need to insure that certain procedures are followed during this period are paramount due to the serious repercussions they could present at a time when we do not need any more problems than we're already have. If your unclear in anyway of what I'm requesting from you, then contact me A.S.A.P. and I will schedule the two of us to get together and clear up the uncertainty you have. Thank You.

(b)(6)

Supervisor Water Utilities





*Job Announcement*

(b)(6) (b)(6)

From: (b)(6) (b)(6)  
Sent: Friday, December 23, 2005 09:31 AM  
To: (b)(6) CPAC/LEW  
Subject: Utility Systems Repairer Operator Supv, WS-4742-10, RPA 804308



From: (b)(6) WADWGP  
Sent: Friday, December 23, 2005 11:06 AM  
To: (b)(6)  
Cc: (b)(6) CPAC/LEW; (b)(6)  
Subject: Utility Systems Repairer Operator Supv, WS-4742-10, RPA 804308

Attached is an advanced copy of the vacancy announcement for the above position, for your information only. The announcement opens 12/23/05 (close 12/27/05) and will be posted on CPOL ( (b)(6) www.opol.army.mil). The self nomination link in this email announcement will not allow applicants to self nominate. Applicants must access the announcement through CPOL or our website (http://portal.g.belvoir.army.mil/west/), in order to self nominate for the position.

Please get this to anyone that you know of that might be interested in being considered for this position.

PLEASE LET ME KNOW ON TUESDAY IF YOU FEEL THIS NEEDS TO BE EXTENDED TO BE OPEN FOR A LONGER PERIOD OF TIME.

(b)(6)  
From: (b)(6)  
Sent: Friday, December 23, 2005 11:00 AM  
To: (b)(6)  
Subject: Announcement for RPA 804308

DEPARTMENT OF THE ARMY  
Vacancy Announcement Number: WTEUC5084308

Opening Date: December 23, 2005 Closing Date: December 27, 2005

Position: UTILITY SYSTEMS REPAIRER-OPERATOR SUPERVISOR, WS-4742-10

Salary: \$29.31 - \$34.26 Hourly  
Place of Work: Public Works, Fort Lewis, WA

Position Status: Temporary Position Not to Exceed: 1 year - Full Time



1



letter to (b)(6) Requesting Temp sup. job

12-28-05

(b)(6) (b)(6)

I (b)(6) would be interested and am qualified in the temporary supervisor's position at Public Works for 120 days at the Wastewater Plant, Water Treatment Plant & Exterior Water & Sewer. I have a dual license & have worked on shift unsupervised since Nov. 1978. My licenses include - WWTP III, WTPO I and WDM I. I have been in supervisory positions in my past history.

1. Coast Guard Boatswain Mate 3 rd Class in charge of a deck force of 10 people.
2. Supervisor at Enlisted Mens Beach ( now called Shoreline Park) on American Lake for 12 people for the last 2 years of a 6 year seasonal job.
3. Supervisor at Madigan Swimming Pool with 6 employees, for 1yr 3 months until I started working at at Fort Lewis WWTP in Nov. of 1978 to present.

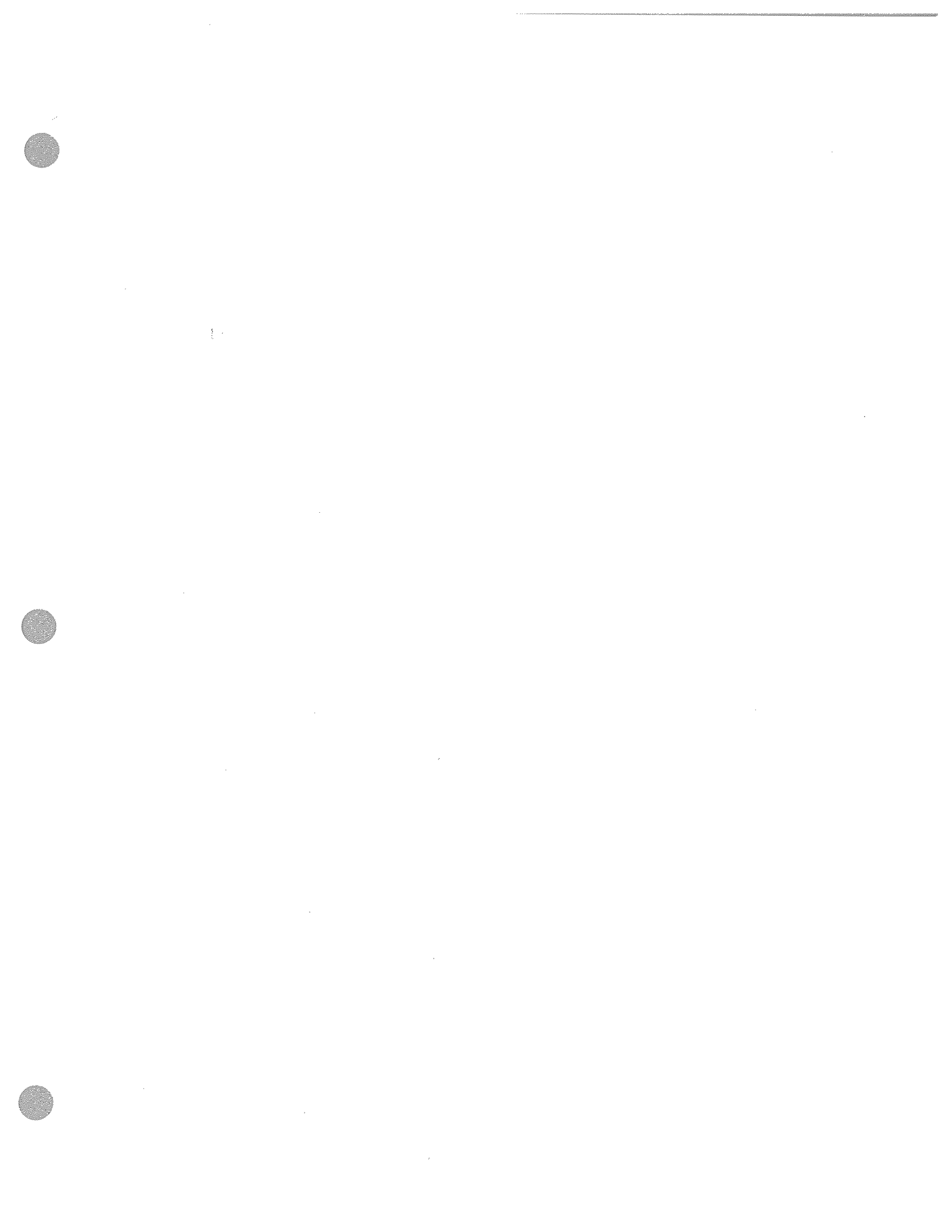
I have 2 ½ yrs. College with an Associate of Arts Degree in Arts & Sciences & a Associate Degree in Animal Technology.

I have worked all shifts as a WWTP operator and worked graveyard for the last several years After the 120 days temporary position I would want the right to go back to graveyard or any other shift at the WWTP plant if you decided not to continue me as supervisor and be protected from losing my position as a WWTP Operator at the Fort Lewis WWTP operator. It would be my intention to have a main office at the WWTP.

Sincerely,

(b)(6)

(b)(6) (b)(6) / WWTP III



Att: (b)(6)  
(b)(6)

Here's Exhibit 6 for  
Compressor for WTP

Thanks

(b)(6)

Copy of Request for Proper  
oil for Compressor use for  
by (b)(6) & Submitted  
by (b)(6) Never Received

(b)(6)  
(b)(6)  
(b)(6)

GOVERNMENT VISA CREDIT CARD REQUEST/RECEIPT INFORMATION	UNIT	SUPPLIES	JOB NO.
		SERVICES	

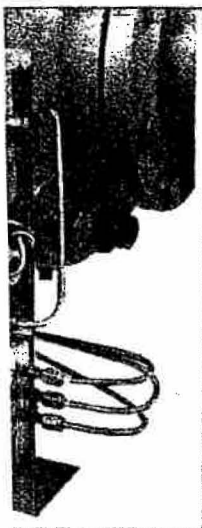
1. REQUEST THE FOLLOWING ITEM(S) BE PURCHASED WITH THE GOVERNMENT CREDIT CARD.

ITEM	DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE
	EP INDUSTRIAL OIL 220	30 GALS		
	SEE ATTACHMENT			
TOTAL				

2. SOURCE OF SUPPLY/SERVICE

COMPANY NAME:		POC:	
COMPANY ADDRESS:			
PHONE#:		FAX:	
SIGNATURE OF REQUESTOR <i>[Signature]</i> (b)(6) DA		SIGNATURE OF HAND RECEIPT HOLDER	
SIGNATURE OF APPROVING OFFICIAL		DATE 12-6-05	
DATE		SIGNATURE OF ADP MANAGER	
		DATE	
		SIGNATURE OF TRANSPORTATION OFFICER	
DATE		DATE	
I HAVE RECEIVED THE ABOVE REQUESTED ITEMS, AS ANNOTATED ON THE INVOICE, FROM THE CARD HOLDER			
SIGNATURE	PRINTED NAME	POSITION	DATE





If damage is  
Full-Lube

seals, be sure to hand pump oil to the seal face at start-up. Never exceed the 3 to 4 drops/minute rate recommended for the seal.

Whenever unit is disassembled, add approximately 1/2 pint (.23) of oil to each bearing cavity through pipe tap on top of each bearing retainer at reassembly.

During the first internal inspection, determine if the proper oil is being used. Bearings, cylinder walls, rotor slots and blades should show a polished surface with a light film of oil. Hard, baked deposits indicate inferior oil, dirt or excessive temperature.

Where excessive moisture is present, use suitably compounded oil having the ability to wet metal surfaces in preference to water.

Gas compressors and boosters are lubricated similar to air compressors except when special gases are being handled. Special material and lubrication is required.

The following are the characteristics of an oil which will be suitable for units operating on straight air service in normal room temperature of 60°F (16°C) to 90°F (32°C).

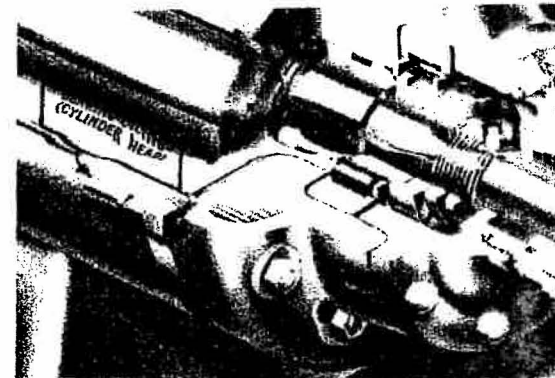


Fig. 11 Force feed oiling to cylinder wall (as shown) on intake quill on other size machines; assures proper oil distribution to all surfaces. Bearing oiling connections on cylinder heads are always located on discharge side.

#### TYPICAL CHARACTERISTICS FOR A PARAFFINIC OIL WITH ADDITIVES:

Normal discharge air temp, range 250°F (121°C) to 325°F (163°C); Grade—SAE 40; 70 to 90 SSU viscosity @ 210°F (99°C); gravity 25°API minimum; viscosity index 87 min.; flash 450°F (232°C) min.; 0.5% max. carbon residue of base stock (Conradson). Must meet performance level of former MIL-L-2104A suppl. #1. For abnormal discharge air temperatures above 325°F (163°C) a 90 to 110 SSU @ 210°F (99°C) viscosity oil is required.

#### TYPICAL BRAND NAME OILS OF NATIONAL SUPPLY SUGGESTED ARE:

Amoco Oil Co.—Amoco 100 or 200 SAE 40	Mobil Oil—Delvac.1140 or 1240	Compounded oil for 'wet' vacuum pumps
Atlantic Richfield—Osage Supreme 40 or Arco plus SAE 40	Shell Oil—Shell Turbo Oil 150 Rotella Oil 150	Texaco—URSA Oil C 150
Chevron—Chevron EP Industrial 220x or Chevron Delo 100 Motor Oil SAE 40	Sohio—Nitron 40 or Facto 40	Chevron—Marine Oil 150x
Cities Service—Citgo C-340	Sun Oil—Sunvis 790	For 'wet' compressor service Chevron—EP Industrial 220x Gulf—Marine Engine Oil 220
Exxon—HDX Plus 40	Texaco—URSA D40 or URSA Extra Duty SAE 40	

#### BRAND NAME OILS AND/OR COMPANY OF FOREIGN SUPPLY

Esso—Essolube HDX Plus 40	Shell—Tellus Oil C 150 Rotella SX 40
Chevron—Canada Europe Latin America	B-P Oil Inc.—Vanellus Super D&F SAE 40 or Vanellus MCS-3 SAE 40
Sun—[International]	

#### SEE APPENDIX A FOR OIL FEED RATES

We do not recommend the use of kerosene, gasoline, or any other volatile cleaning agent in the cylinder during operation. Their use can cause a temporary lack of proper lubrication.

Contact Fuller Company for synthetic lubricants.

(b)(6)

log includes for safety checks for gas pipe for [redacted] to be fixed

0530-400pm Sept 27 2006 days Wed [redacted] (b)(6) (b)(6)

0530-0830 (b)(6) - AM OK [redacted] [redacted] [redacted]

(b)(6) would be down shortly to go over the Sledge (#100) [redacted]

0930-1030 (b)(6) called AT to find out when he was

going to show up - (b)(6) told him to go ahead & do cover cut

work unit. I then left [redacted] I called Ft. Lewis Safety thru [redacted]

Approx 0745 she will get a message to (b)(6) and he will

get back to me - Approx 0945 I called Ft Lewis Safety because a

one had contacted me - she will pass the message to (b)(6)

to get back to me - called (b)(6) approx 0745 he [redacted]

A blunt response that (b)(6) (Rehans apartment) would

down to go over safety with everyone prior to beginning site

movement 1005am still no response from anyone (b)(6)

1000-1130 (b)(6) - [redacted] (Capt Pump Resources) [redacted]

how to work on (b)(6) Tim this am - #3 feathers need to

have blunt out removed & changed before this person can be fixed

(b)(6) said no problem on reschedule him to come back to work

#3 feathers (b)(6) reviewed at 1030 & left at 102 - call phone at home to

rechedule - he would also like to talk w/ an electrician to

make sure the correct air-zoning unit is being used - there to

contact (b)(6) but has [redacted] there was not available - your business

and minutes info to (b)(6) - called w/ [redacted] to get info on #3

feathers - parts on order - talked to (b)(6) - he said he was waiting

to talk to (b)(6) - will pass info to (b)(6) when he gets back

to about 1105 to value back - checked - replaced - & tented

1400 hours (b)(6) [redacted] motor for oil level

to stop by (b)(6) for (b)(6)

begin talked w/ (b)(6) concerning #1 dig clearing - safety will

have to make sure things are done safely - visit to see #1thor

(b)(6) talked w/ industrial hygiene people about concerns w/

dig clearing (b)(6) had afternoon plant records (b)(6)



*Prior to job announcement*

11-30-05

To (b)(6) (b)(6)

Subject: : Lack of confidence in current Fort Lewis Wastewater Plant supervisor

The following signatures represented on this notification are indicating a lack of leadership in the daily operation of the Fort Lewis wastewater plant and collection systems.

(b)(6) (b)(6)  
(b)(6) (b)(6)  
(b)(6) (b)(6)  
(b)(6) (b)(6)  
(b)(6) (b)(6)  
(b)(6) (b)(6)

Cc; Garrison Commander  
(b)(6)  
I.A. M. Union Representative



(b)(6) (PKI)

From: (b)(6) (PKI)

Sent: Wednesday, November 30, 2005 3:28 PM

To: (b)(6) (PKI)

Cc: (b)(6) (b)(6) (PKI)

Subject: PCAR 579

The PCAR system is only partially working during its migration to the new pwnline - this is an interim PCAR notification.

You can view the PCAR assigned to you by going to pwnline (<https://pwnline>) then click on the ISO 14001 link (lower left), then click on PCAR system (under Links), then click on Browse Everything. When you are ready to respond to the PCAR, let me know and I will send directions (hopefully the system will be fully operational at that time). When the system is fully operational you may receive a second notice from the pwwebmaster.

PCAR 579

Element 4.5.1

Problem: The requirements for calibration of some monitoring equipment are not fully defined or recorded

Details: The requirements for calibration of some monitoring equipment are not fully defined or recorded as evidenced by:

Objective Evidence of Problem: Water Treatment - (a) the frequency of calibration was verbally indicated to be 6 month intervals. However, this frequency could not be verified in any procedure or document. (b) Several instruments indicated a recent frequency of over 12 months (PO4, CL17, pH analyzers). (c) The calibration certificates reviewed did not indicate the "as received" condition of the instrument by the calibration lab or indicate validation of the calibration instruments used. Waste Water Treatment - (a) The "Maintenance Sheet" and "Calibration Record" indicate that annual calibration is required for effluent flow meters. However, the last record found for the calibration of effluent flow meter #2 was July 2002. (b). The use of White-out may not be appropriate for corrections on the "Calibration Form"

Process Owner: (b)(6)

This problem needs to be fixed by December 15th, 2005 or a plan to fix the problem must be generated by 15 December 1005.

An In Progress Report (IPR) meeting (requested by the director) will be held on 8 December @ 0900 in room 113 of building 02012 to review progress toward this PCAR.

(b)(6)

GIS Analyst, PW EMS Representative  
Public Works, Fort Lewis WA

(b)(6) (b)(6)

1-865-227-4224

12/1/2005





DEPARTMENT OF THE ARMY  
INSTALLATION MANAGEMENT AGENCY  
HEADQUARTERS, UNITED STATES ARMY GARRISON  
BOX 339500, MAIL STOP 17  
FORT LEWIS WASHINGTON 98433-9500

IMNW-LEW-PW

20 OCT 2005

MEMORANDUM FOR PUBLIC WORKS PERSONNEL

SUBJECT: Environmental Policy

1. The mission of Public Works is to support troop unit readiness by operating, maintaining, and repairing the infrastructure and facilities at Fort Lewis. In addition, we develop and manage the Fort Lewis environmental programs necessary for Fort Lewis to meet its stewardship responsibility to protect and conserve the environment. In accomplishing our mission, we commit to:

a. Comply with all applicable environmental policy, laws, and regulations.

b. Continually assess Fort Lewis and Directorate activities and services to determine their effect on the environment. Identify the significant environmental impacts and ensure that they are considered when establishing objectives and targets in our environmental management programs.

c. Identify and address pollution prevention opportunities on Fort Lewis and within the Directorate, and assist Fort Lewis in meeting or exceeding Army goals for prevention of pollution.

d. Strive for fully integrating the relevant environmental requirements into our mission procedures and work practices so that environmental awareness and compliance are a routine part of the way we perform Directorate activities and services.

e. Actively seek opportunities to continually improve our environmental management system. Establish measures of performance to assist in assessing system effectiveness.

2. This policy will be available on the Public Works Intranet (<https://pwwonline>). Supervisors will ensure that copies of the policy are posted in Directorate shops, work areas, and offices as appropriate. The policy is available to the public through the I Corps Fort Lewis public web site at [www.lewis.army.mil/publicworks](http://www.lewis.army.mil/publicworks) click on Environmental, then click on PW Environmental Policy.

(b)(6)

PE  
Director of Public Works





(b)(6)

*Johnson*

*SOP*

**SHOP 646  
WEEKLY TASK LIST**

**WEEK:** 1-6 May

#1. Begin taking down and emptying a system for complete cleaning ( pressure washing ) top to bottom, thorough inspection of the system ( structural, mechanical, electrical, etc. ) all shifts to participate. This is to be a Plant PM, so document progress, procedures, and findings. Observe all safety procedures ( lockout & tagout, confined space ). Complete thorough, neat, and understandable documentation to be turned in as each system is completed.

#2. Swingshift is to begin turning as many beds as possible to speed up the evaporation process and all actions concerning the beds will be discussed with (b)(6) or myself. The CAT tiller is to be utilized for this process, and if have questions concerning this requirement then arrange to get with me for Clarification.

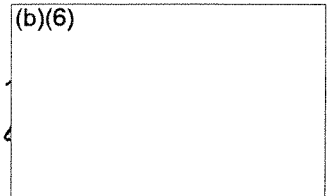
#3. the interior of the OPS building is to be cleaned up by all employee's and then maintained in a clean state. The cleaning rooster implemented and agree'd to by the employee's is not exhibiting a standard that a reasonable outside person coming there to conduct business would feel comfortable in. The practice of leaving things laying around and not returning them to their storage place is to cease. The conference room is to be maintained as a conference room and all of it's chairs are to be cleaned and returned.

#4. All spaces are to be cleaned up and then maintained clean, and they are not to be used as storage spaces. This is part of the above requirement about putting things back in their proper storage space after use.

This is a beginning phase of training for all employee's within the Water Utilities section as to what will be required to meet the standard of a pass or fail under the MEO. It's better to fail and correct now verses when the clock starts and fails start counting against us.

We as a group are going to be called on to go through changes soon and whether you agree or disagree on them, they are coming. Your actions to these changes can determined the difference as to whether we all stay employed and PW survives as an organization, or someone else comes in here to get the job done. I as the Supervisor of the Water Utility Section believe we have in us to win, but it'll require a mature adult attitude, cooperation and a sincere effort by everyone. The old axiom "your only as strong as your weakest link" I think applies as to our survival of the task ahead of us.

(b)(6)





Questions - That (b)(6) had presented to (b)(6)  
used chain of command and never got answers of  
1-17-05 Replies

These comments are presented by (b)(6) (liaison as per (b)(6) (b)(6) to improve conditions at PW WWTP without retaliation in any way by mgmt. Presentation is constructive with requested answers to issues. Views & opinions are those of WWTP operators.

Questions, issues statements & problems made by Ft. Lewis, WA WWTP employees since (b)(6) was appointed supervisor.

- created hostility amongst almost all employees from ex/wtr & sewer, wtp & wwtp.
- no brainstorming between employees & supervisor, which would make employees feel good about themselves. Never justifies what (b)(6) does. Supervisor attacks!
- (b)(6) doesn't prioritize or discuss priorities with (b)(6).
- (b)(6) responsibilities of DMR's, payroll, maximo, timesheets & scheduling mostly passed on to others. Doesn't know how to do scheduling & time cards very well & has others do them. Employees who help with these tasks don't like being talked down to along with all employees.
- Broke a lot of ethical rules. Threats of firing. Arrogant & condescending to his personnel. ( My way or the highway.) Employees shouldn't have to come to a work in a hostile environment (ex.) logbook entries. What happened to log book that was sent to mgmt. with derogatory remarks to employees by (b)(6)? Regulations state all log books stay at WWTP. CPO rules state that derogatory remarks will not be tolerated in the workplace. The workplace is supposed to be a non-hostile environment and it is just the opposite. The workplace can be changed w/o creating hostile environment if done in a tactful way.
- Doesn't give explanation for his decision making to employees. No employee input! Should support employees & ideas, not degrade them.
- Doesn't seem to have remorse for his improper actions.
- Respect goes both ways.
- (b)(6) leave rule is to call him for any leave period, even if it is just one day. If you take A.L. without notifying him, then you will be charged with AWOL for that day, even if (b)(6) cannot be reached. Change back to the way it was before, which was you could call in A.L. at least 1 hr. before your shift. Employees are there for supervisor for needed call-ins at a moments notice, therefore give us leeway. This creates a working relationship between supervisor & employees.

- Why did [ ] confiscate all of (b)s downloaded disks on 1-17-06 that (b) needs for I &I, flow, lab forms hazmat etc. Gave no explanation for this action.
- What happened to grievances that were not withdrawn?
- Doesn't seem to let employees know what (b) doing to keep us informed on what's going on.
- Talk to employee's relatives on phone in a professional & courteous way when calling for an employee. Relatives find unprofessionalism offensive on phone. There is no reason not to be polite.
- Took down union board information and never put back up.
- Can the WWTP be left unattended? Yes or No. Electrical interruptions require manual reset on 2/3 of the plant.
- Why did you take down almost all-important paperwork in the workplace & not put back up. Why did you take it down in the first place?
- Taking credit for things others do. Ex. (b) found broken sewer line at Murray Creek not supervisor!
- Should have his schedule put up with other employees so if someone calls for supervisor, we can say [ ] is either-- Working, on A.L. or S.L. or OFF.
- How much info really gets to (b)(6) from (b) about problems with employees from all three shops.
- Employees have lost respect or losing respect for [ ] due to his condescending mgmt. style, actions & attitude.
- Sneaking around is dangerous because the on-shift person could mistake supervisor for intruder and someone might get hurt without realizing who person is. Did supervisor do this on his A.L. Did person supervisor brought with him know what his intentions were? It has been understood that person was deceived.
- EVERYONE communicate in a tactful way with others. This is good stress relief.
- Work environment can be stressful at times, but still can be harmonious with others.
- No room for personnel vendetta's. Goes both ways.
- WWTP van tools apparently went to EXT. WTR & Sewer. Why not back to sewage plant. We need tools.

- Share responsibility & respect with all of us & you can shine and your shops will look good too.
- (b)(6) should take time to visit occasionally all PW shops. Make a day in your schedule for that purpose only. All shops will respect you for taking the time.
- Decision making between supervisor & employees not always correct- that's how we learn & grow.
- (b)(6) needs to communicate better with employees.
- (b)(6) gives (b)(6) or (b)(6) permission to do a task & then takes over job anyway- for what reason? Makes employee mad & inferior. You combine all the knowledge of all employees at sewage plant and that's at least 130 yrs. of knowledge. That is valuable in the workplace!
- (b)(6) asked everyone down here if (b)(6) should bring (b)(6) down to sewage plt. If anyone objected, then (b)(6) would have been hesitant to bring you down & then where would you be. We took you in -don't kick us out!
- All of us at sewage plt. & perhaps elsewhere should think about getting some counseling from (b)(6) (b)(6) the stress counselor on post. He may have some helpful insight. Go somewhere to meditate if you become frustrated as per (b)(6) (b)(6)
- PW computer training for all employees that want the training on different programs for public works. I was told by computer dept. that this is possible.
- The supervisor position from (b)(6) CPOCWCP (b)(6) stated on Utility Systems Repairer-Operator Supv. position " Please get this to anyone that you know of that might be interested in being considered for this position." - this was not done.
- Not knowledgeable on WWTP – should listen to operators.
- Need meetings on a weekly basis & with (b)(6) maybe once a month.
- (b)(6) needs to lead by example to get respect.
- (b)(6) told (b)(6) that (b)(6) runs the sewage plt. but then (b)(6) doesn't let him. Frustrates (b)(6)
- Sign in (b)(6) office stating no one is allowed in office without (b)(6) permission, not even (b)(6) is impractical & degrading to employees. (b)(6) should be using office for his job since (b)(6) is hardly here. Waste of space.

- No parking in front of bldg. after 30 yrs. is harassment & an insult to employees. [ ] says parking is for guests only, but then [ ] parks there. Where is the standard?
- When I talked to [ ] I asked him directly " are we going to have our shift hrs. changed & [ ] said no & the 9 hr. shifts will not happen. [ ] never communicated this to employees so they all believe the shifts are going to change. Why didn't [ ] inform us about this issue?
- The suggestion by [ ] & myself of prototyping a drying bed by putting in heating pipes using boiler water on one floor bed covered in concrete and raise the walls higher was put on hold by [ ] to [ ] Why? [ ] apparently had it engineered. This could be the answer to not having any open beds to pour.
- [ ] turns in IJO without proper paperwork & [ ] never gets it. [ ] should of told [ ] to put it on the proper IJO form, like [ ] told [ ]. Problem solved!
- How [ ] interprets [ ] on serious issues expressed by [ ]. [ ] seems to ignore safety.
- Is new shelving at ext. water more important than badly needed sewage plt. parts.
- Work with [ ] & operators to prioritize
- Other personnel told [ ] that they were interested in doing 120 days temp. supervisor and that person should have been told of the window opening especially since the supervisor temp. position was written on the announcement to notify all interested parties
- [ ] has humiliated people in the presence of others.
- [ ] asking for input about how [ ] can improve his communication skills.
- Pay shortage for [ ] [ ] vs. logbook time entry, ½ hr. per day discrepancy still not resolved.
- Should [ ] daily computer input for operating sewage plt. include an extra ½ hr./day also?
- One more thing ! All of us can choose to have a good day or a bad day, and all of us need to choose to have a good day, regardless of circumstances. Be courteous and polite to other as you would want to be treated and you will have a good day. Also, LAUGH --its healthy.



□



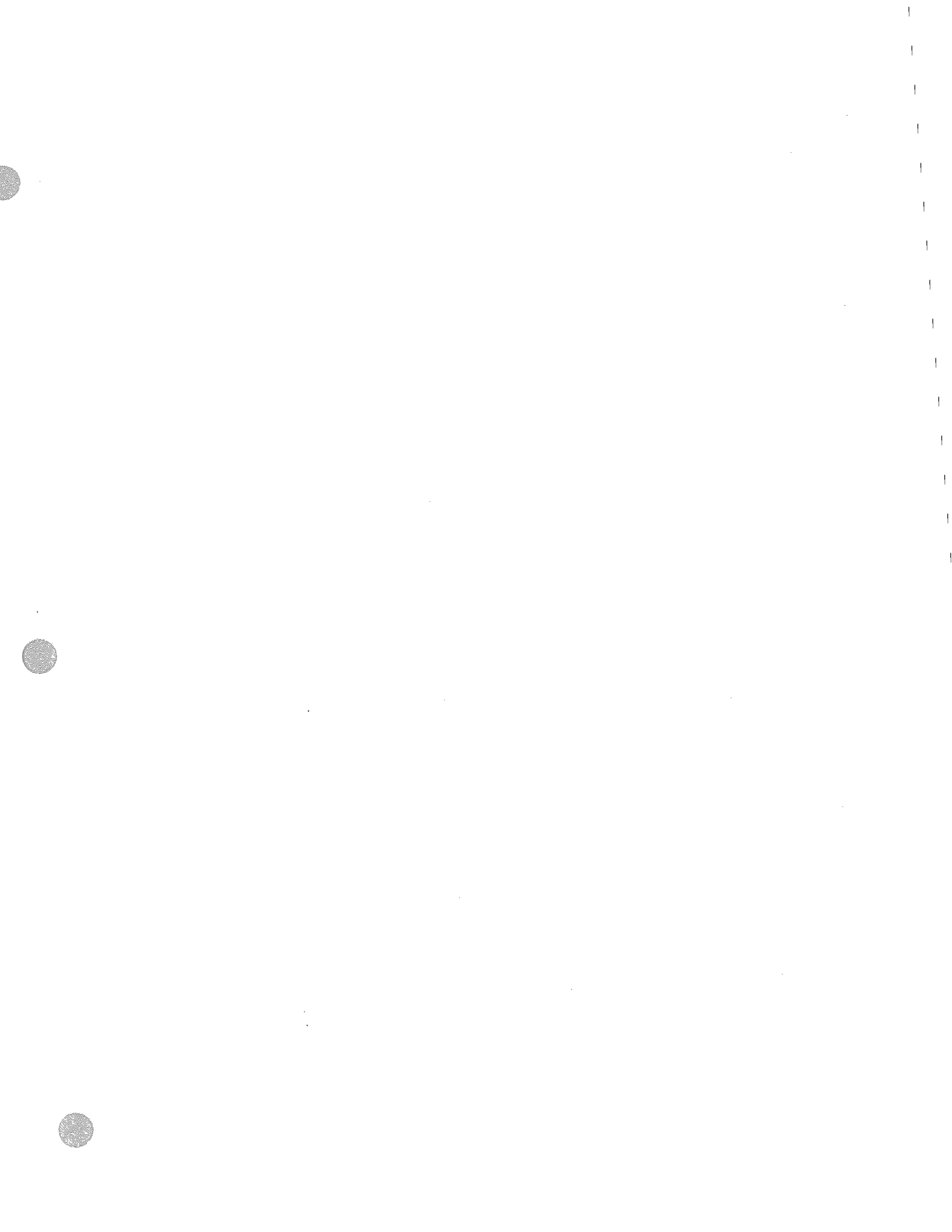
Public Works – M&R (Utilities) Division		
Procedure: WWTP Daily Operating Procedure Document ID: PWU-105		
(b)(6)	Approval: <i>[Signature]</i> (b)(6)	Revision: 6 Revision Date: 12/15/04 Review Date: 8/4/05
Utility Systems Repairer- Operator Supervisor	Maintenance & Repair Division Chief	Original Date: August 1995

*Prior*

### WWTP Daily Operating Procedure

- I. A plant tour will be completed at least 2 times per shift, the supervisor's intent being that a complete plant check is done approximately every 4 hours. The WWTP Section O&M Manual or the specific equipment/system O&M Manual will be used for start-up and shutdown of systems and equipment. The following equipment will be checked during each tour for proper operation, (shift PM), leaking seals (oil & water) and cleanliness (clean as needed):
  - a. Headworks – Barscreens (reducer oil level), screenings conveyer (oil level & belt tension), grit cyclone separator, grit cross collector (torque), grit chamber air rate, grit pumps (oil level), blowers (oil level), and hot water system. Check for an appropriate amount of sample in the Raw sampler reefer (ensure a gaining sample). (b)(6) is scheduled for debris can pickup on Tuesdays and Fridays. If the screenings cans are full contact (b)(6) for removal and dumping (253-537-8687). Washdown screenings pads and conveyer deck each shift.
  - b. Thickener – Thickened sludge pumps (oil level), oil reservoirs, thickener drive, #2 Scum pump (oil level), the scum concentrator and #3 Scum pump at concentrator. Dayshift will run off scum into waste can during their shift and washdown the concentrator hopper with hot water. Check and record thickener sludge level approximately 2 hours before the end of shift and log results in the operations logbook. Swingshift will normally adjust Thickened Sludge pump run time based on sludge level target and update information on the operations board.
  - c. Primary's - Primary sludge pumps, seal water pump, sump pump, auger and collector drives, T-valves, flights, #1 Scum pump, Peerless pumps (oil level), oilers, recirc valve. Check for an appropriate amount of sample in the PE sampler reefer (ensure a gaining sample). Swingshift will skim scum from primary clarifiers during their shift and washdown scum trough & scum wetwell.
  - d. Secondary's - Clarifier drives, secondary pumps, seal water pump, dilution pump, sump pump, and the algae sweep systems. Ensure the trickling filter distribution arms are moving properly and that there is no excessive buildup of material in the spreader plates. Pump scum pit during last tour of shift and washdown pit and collector troughs.
  - e. Disinfection & De-chlorination – Hypochlorite feed pumps, De-chlorination pumps, Non-pot pumps (oil level), distribution header water flow, and storage tanks. Check for an appropriate amount of sample in the Effluent sampler (ensure a gaining sample). Swingshift will skim scum from chlorine contact basins and washdown scum trough & scum wetwell.
  - f. Solids Handling - Gas compressors (oil level), sludge recirc pumps (oil level), hot water recirc pumps, seal water pumps, boilers, oilers, water traps, flare, supernatant. Maintain primary digester temperatures as directed on the operations board. Water traps will be drained every tour. Adjust the supernatant arm as needed for best quality supernate (most clear, least solid content).

- g. **Drying Beds** - Operations by assignment.
- h. **Laboratory Duties** - Each shift has daily laboratory duties. Follow the Laboratory Operations SOP posted in the Lab.
2. **All Shifts** -
- The on-coming and off-going duty operators will conduct verbal turnovers at the operations desk 1 hour before the end of shift. Turnover shall include problems or unusual conditions, status of equipment, system parameters, and any supervisor instructions at a minimum. The time of the turnover and participants shall be recorded in the logbook.
  - The on-coming operator will review logs, accomplish dual activities, attend training, assist the off-going operator if needed, or perform PM as assigned prior to turnover.
3. **Dayshift** - The dayshift will run the concentrator scum into the disposal can and washdown the scum concentrator. On Tuesday & Friday mornings place the detritus cans out for pickup no later than 1000 (b)(6) due between 1000 & 1100). Perform laboratory analyses on Fridays, Saturdays, and Sundays as assigned per the Laboratory SOP.
4. **Swingshift** - The swingshift will skim primary & chlorine contact chamber scum and washdown the skimmers & scum wetwell during their shift. Make daily adjustments to the thickened sludge pump timers during normal operations. Perform laboratory analyses on Wednesdays (dayshift) per the Laboratory SOP. Perform plant data entry into the plant database.
5. **Nightshift** - The nightshift will collect the composite samples and deliver to the laboratory for warm-up by 0100 each night. The nightshift will record the daily & weekly monitoring results on the logsheet and/or in the data log and change out recording charts at midnight on Saturdays. Perform laboratory analyses on Saturday & Sunday mornings per the Laboratory SOP.
6. **Log Keeping** - The plant logbook is a legal record of plant operations and conditions. A record of each plant tour or system tour will be recorded in the logbook at the specific time the tour was completed (examples below). All unusual or abnormal conditions will be entered into the logbook in detail at the specific time the condition is noted (examples below). All operational changes such as turning equipment on or off, changing valve positions, etc... will be entered into the logbook and reasons for the change, at the specific time the actions were taken (examples below). Information entered into the logbook shall be factual information pertaining to plant operations and conditions. Opinions and suggestions shall be forwarded to the plant supervisor.  
Examples: 0800-Plant Check, means items 1a. through 1f. were completed at 0800 with no unusual conditions to report. 1035-Primary & Secondary Check means 1c. & 1d. were completed at 1035. 1750-Power outage, plant operating on EDG, means the power outage was at 1750. 0032-Switched to #2 Sludge recirc pump, secured #1 Sludge recirc pump, and lined up valves accordingly, means this action was completed at 0032.
7. This procedure will be reviewed annually.



<b>Public Works – Utilities Division</b>		
<b>Procedure: Laboratory Standard Operating Procedure</b>		
<b>Document ID: PWU-108</b>		
(b)(6)	Approval: (b)(6)	Revision: 3 Revision Date: 10/25/04 Review Date: 8/4/05
Utility Systems Repairer- Operator Supervisor	M & R Division Chief	Original Date: August 1999

## Laboratory Standard Operating Procedure

1. All analyses procedures referred to in this SOP are listed on the respective test bench sheets and posted at each station within the Laboratory. These are EPA approved procedures for the analysis of wastewater samples. Technical manuals specific to each maintenance or calibration action shall be referenced and used where indicated. This procedure will be reviewed annually.

### Shift Duties – Duty Operator

#### Graveyard Shift:

- Review all laboratory and QA/QC logs for each day by 0700.
- Check each composite sampler level each day to ensure a gaining sample.
- Read and log all daily readings from totalizers (listed on Operations Log) by 0100.
- Change out Plant Flow and Chlorine charts every Saturday/Sunday night by 0100.
- Read and log all tank levels (Operations Log) every Saturday/Sunday night by 0100.
- Change out composite sample jugs and bring composite samples (Plant Influent, Primary Effluent, and Plant Effluent) to the laboratory for warm-up each day no later than 0100.
- Start the BOD Seed mixing at 0500 each day.
- Perform QC checks (e.g. temperatures) and calibrations for all testing/sampling performed.
- Perform BOD, TSS, Temps. and pH testing each Saturday and Sunday morning by 0800.

#### Day Shift:

- Review all laboratory and QA/QC logs for each day by 1530 when assigned laboratory duties.
- Check each composite sampler level each day to ensure a gaining sample.
- Perform Fecal Coliform and Effluent Total Chlorine Residual sampling and testing between 1000 and 1200 each day (in the absence of the laboratory technician).
- Perform the laboratory sampling and testing listed in paragraph 2. every Friday and on weekdays when the Laboratory Technician is absent as assigned by supervisor.
- Follow-up for uncompleted storm/exterior items will be performed on Thursdays.
- Collect a composite sample of bed pours and pH on the sample per procedure. Place sample in sample refer for Solids testing. Complete bio-solids bench sheet. Record in sample collection log.

#### Swing Shift:

- Review all laboratory and QA/QC logs for each day by 2200.
- Enter all the previous day's totals and results into the Wastew.mdb database by 2200.
- Check each composite sampler level each day to ensure a gaining sample.
- Perform the laboratory sampling and testing listed paragraph 2. every Wednesday on dayshift.
- Clean CL-17's every Saturday per Maximo Job Plan.

### Sampling and Testing:

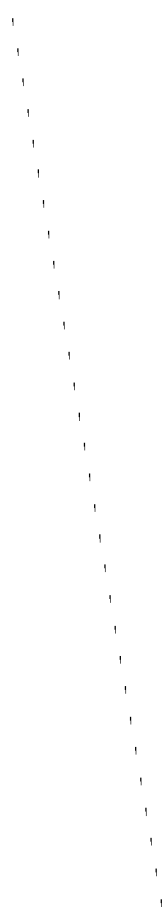
2. All required calibration shall be done prior to each analysis. Specific procedures and requirements are posted at testing stations and on bench sheets. Complete sample log entries as samples are collected and when analyzed.

- Grab an effluent sample (1 each) for pre-dechlorination CL2 residual analysis, and post-dechlorination CL2 residual analysis. \*\*
- Perform Total CL2 residual tests on both CL2 grabs, per procedure, and log results. \*\*
- Perform fecal coliform analysis, MTT, per procedure, on the grab sample, calculate previous day's readback and log results. \*\* These tests will always be performed on dayshift between the hours of 1000-1200.
- Perform pH & temp. of the influent and effluent in process, per procedure, log results.
- Perform BOD<sub>5</sub> and Total Suspended Solids analyses on composite samples, per procedures, readback previous BOD<sub>5</sub>, calculate and log results.
- Perform Settleable Solids test on the effluent, primary effluent, & influent weekly on Wednesdays.
- Grab samples of raw sludge, primary and secondary digester sludge every Wednesday and perform Total Solids, temp., and pH analyses, per procedures, and log results.
- Perform Total Solids readback and Volatile Solids portion of analysis, per procedure, on Thursdays, log results and calculate.
- Perform all QA/QC readings (temperatures, etc...), log results. Take corrective action as needed.
- Clean and store all equipment used in above analyses, load dishwasher and run when full (generally two days of glassware).
- Perform Total Solids and Volatile Solids testing, per procedure, on bed composite samples as needed.

### Laboratory Maintenance & Special Testing (Lab Tech, Wednesdays):

All maintenance procedures are located in respective technical manuals.

- Check sampler tubing and sample pump tubing, change as needed.
- Inspect, then service vacuum pumps as needed.
- Prepare TSS filters for the following week.
- Check water level in Autoclave, fill as needed.
- Check CL-17s for proper operation and change reagents as needed.
- Check all sample containers for integrity, change out as needed.
- Check desiccant in use (samplers also), change as needed.
- Fill or top off buffers, rinse water bottles, etc....
- VA/Alkalinity testing, every Wednesday on the Primary Digested Sludge sample, per procedure, log results.
- Inspect, then clean glassware and laboratory equipment as needed.
- Perform all required calibrations per supervisor's instructions.
- Inspect equipment analysis probes for damage and wear, replace as needed.
- The Laboratory Technician will review logs and bench sheets, prepare monthly package for supervisor review.
- Inspect and clean de-mineralizer, change cartridges as needed.
- Perform repairs to equipment as needed.



100



Utility Systems Repairer Operator Supervisor  
(Sections 646 WWTP, 645 WTP, and 642 Water & Sewer)

07 July 2004

1. Technical Expertise

a. Ensures operation and maintenance of the wastewater treatment plant (WWTP), collections system, stormwater facilities are performed in accordance with established procedures, and within NPDES permit limitations. Ensures operation and maintenance of the water treatment plant (WTP) and water distribution facilities are performed in accordance with established procedures, and within Department of Health limitations. Excellence will be achieved with fewer than 4 oral or written notices of violations.

b. Provides the Division Chief with infrastructure repair projects as required to maintain facilities in good condition. Excellence will be achieved by having no more than one major system failure in each major system.

c. Maintain at least a Washington State Group III Wastewater Certification. Make progress (coursework and/or testing) in achieving water certifications. Develop and implement a preventative maintenance plan for the water system.

2. Innovation/Initiative

a. Ensures that each section holds monthly safety meetings and maintains a current safety-training program. Excellence will be achieved by no more than one safety related accident per section. Annually performs a documented safety checklist that certifies compliance with OSHA regulations. Excellence will be achieved by having a current annual OSHA checklist with no more than one negative finding and less than 10 OSHA violations in each section.

b. Works with outside organizations and agencies (EPA, OSHA, Washington State DOE & DOH, and other wastewater or water organizations) toward a goal of higher plant performance and safety. Excellence will be achieved through noted plant efficiency increases and physical and/or administrative improvements to operations and safety.

c. Ensures that all required training, calibration and documentation is current. Excellence shall be demonstrated by scheduled training requirements and costs being as constant as possible from year to year.

3. Responsibility/Accountability

a. Performs and assigns system Preventive Maintenance (PM) and Maintenance Service Orders (MSOs) in accordance with CA study PWS standards. Excellence will be achieved when 93.5% of PMs and MSOs are performed per standard.

b. Completes all monthly reports and other administrative obligations in a timely manner. Completing and submitting reports within 10 working days after the end of the reporting period will achieve excellence.

4. Working Relationships

- a. Works effectively with the Division Chief and section employees to provide an efficient operation. Excellence will be achieved by responding to all requests within 4 working days.
- b. Works within the guidelines of the Incentive Awards program to provide recognition of outstanding performance. Excellence is achieved through awards recognition following current directorate guidelines.
- c. Maintains a positive relationship with customers. Excellence will be achieved by receiving fewer than 2 complaints in each section.

5. Communication

- a. Meets with all section employees to discuss objectives, goals, and receive feedback in a group setting to ensure continuity. Excellence will be achieved by meeting at least 12 times per year.
- b. Provides an open and accurate flow of information between the Division Chief and section employees on issues concerning all. Excellence will be achieved with fewer than 4 communication misunderstandings.
- c. Meets all suspense dates set by the Division Chief either orally or in writing. Excellence will be achieved by missing fewer than 3 dates.
- d. Provides critical information to the Division Chief and Director of Public Works.

6. Organizational Management and Leadership.

- a. Maintains a training plan designed to keep employee skills high and provide operators with professional growth requirements. Set goals for each employee to achieve during the rating period for plan and personal performance improvement. Excellence will be achieved by having all plant employees' performance documented for the Division Chief.
- b. Completes performance evaluations in a timely manner. Excellence will be achieved by completing all evaluations within 30 days after the end of the rating period.

7. EEO and Affirmative Action

- a. Completes at least one action to further goals of EEO/AA. Excellence will be achieved with more than 1 action.
- b. Shall have no more than 1 valid (sustained) EEO action. No valid EEO action constitutes achieves excellence.



WWTP Staff List

(b)(6) -- Utility Systems Repairer/Operator Supervisor -- WS-4742-09

(b)(6) -- Utility Systems Repairer/Operator Leader -- WI-4742-09

(b)(6) -- Biological Science Laboratory Technician -- GS-0404-09

(b)(6) -- Utility Systems Repairer/Operator -- WG-4742-09, Dayshift

(b)(6) -- Utility Systems Repairer/Operator -- WG-4742-09, Dayshift

(b)(6) -- Utility Systems Repairer/Operator -- WG-4742-09, Dayshift

(b)(6) -- Utility Systems Repairer/Operator -- WG-4742-09, Swingshift

(b)(6) -- Utility Systems Repairer/Operator -- WG-4742-09, Swingshift

(b)(6) -- Utility Systems Repairer/Operator -- WG-4742-09, Nightshift

(b)(6) -- Utility Systems Repairer/Operator -- WG-4742-09, Nightshift

Dayshift -- 0600-1630

Swingshift -- 1300-2300

Nightshift -- 2200-0800



*1. The main mission of the WWTP - Note environmental compliance  
What does it say environmental + R.M. Norton tell us how to live and  
job. Two different Dept.*

## FORT LEWIS WWTP SECTION

### VISION, MISSION, PRIORITIES, & EFFLUENT STANDARDS

**Vision** - We provide the Fort Lewis Community with a quality wastewater treatment system and program that protects Puget Sound and local receiving waters while raising the standard of our services and contributions to the training mission of I Corps.

**Mission** - Provide efficient operation, maintenance, repair, treatment, and monitoring of wastewater facilities, stormwater units, washracks, pumping stations, and oil skimmers on Fort Lewis.

- Operate the WWTP and STWPs to meet all NPDES requirements
- Perform laboratory analyses and system sampling in accordance with NPDES requirements and operational needs
- Perform routine maintenance on WWTP, SWTPs, other sub-systems and equipment to include preventive, predictive and minor repair
- Maintain pumping systems at Centralized Washrack Facilities
- Perform administrative tasks to support employees and environmental compliance for the section
- Provide a healthy work environment for civilians and soldiers through continuing training in operations, safety, health awareness, and prevention of the spread of waterborne diseases

#### Mission Priorities

1. WWTP Operations (Clean-up Roster)
2. Laboratory Sampling & Analyses
3. Lift Station Operations
4. SWTP Sampling & Analyses
5. Washrack O&M
6. Lift Station Maintenance
7. Stormwater O&M
8. Oil Skimmer O&M
9. WWTP Maintenance

#### Maintenance Priorities

1. Emergency Repairs (Health & Safety)
2. WWTP Equipment
3. Laboratory Equipment
4. Washrack Equipment
5. Operations Building (Except Clean-up Roster)
6. Lift Stations
7. Stormwater Facilities
8. Oil Skimming Units
9. Equipment Painting
10. Facility Painting
11. Grounds

#### Fort Lewis WWTP Effluent Limits:

Flow - 7.6 Million Gallons Per Day

pH - min 6, max 8.5

BOD5 - 30 mg/L monthly average, 45 mg/L 7-day average

BOD5 - 1902 lbs. per day monthly average, 2852 lbs. per day 7-day average

Suspended Solids - 30 mg/L monthly average, 45 mg/L 7-day average

Suspended Solids - 1902 lbs. per day monthly average, 2852 lbs. per day 7-day average

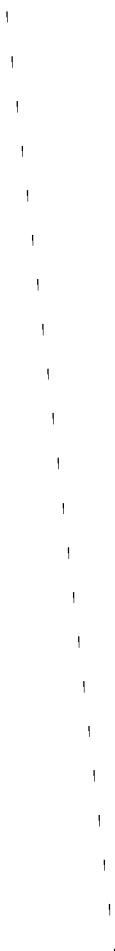
% Removal BOD5 - 80% (min)

% Removal Suspended Solids - 80% (min)

Fecal Coliform - 200 colonies/100ml monthly, 400 colonies/100ml 7-day, geometric mean

Chlorine Residual - 0.5 mg/L maximum daily limit

No visible foam/oil/floating solids on receiving water



•



(b)(6)

*Refused  
to allow  
to do  
no*

1. The section supervisor will schedule all predicable overtime requirements, such as those due to leave, schools and scheduled absences.
2. In the case of emergency overtime requirements the duty operator shall contact the section supervisor. If the supervisor is unavailable the operator will call out necessary personnel to perform the repairs or actions needed to correct the emergency.
3. In the case of shift coverage overtime the duty operator shall contact off-duty personnel\* (personnel on their regular day off (RDO)) to work the overtime. If no off-duty personnel are available to work the overtime, contact on-shift personnel (including themselves) to work the overtime by splitting the vacant shift with other on-shift personnel. If the duty operator cannot make contact with other section personnel, he/she must work the overtime shift. If the duty operator is in a position where they could end up working a triple shift, they must continuously attempt to reach section personnel until they make contact, the contacted person must come in to relieve the duty operator in this case.
4. If an employee calls for an extended (more than 2 days) period of sick leave, the duty operator shall contact the supervisor (leave a message if the supervisor cannot be reached) to allow the supervisor to schedule the overtime. It is the supervisor's procedure that for callout shift coverage only one day is offered at a time. If the supervisor does not respond within 24 hours, the duty operator must follow the guidelines in paragraph 3.
5. Every effort will be expended to keep any employee from working more than 12 hours (consecutively) in a single day.
6. The duty operator will record all actions taken in paragraphs 2,3 and 4 above, in the logbook. This information will include the reason for the callout; each person contacted or attempted to contact, whether they could not be reached, refused or accepted the overtime, and the time of the call. When attempting to contact the supervisor, if  is not home, leave a message and reason for the call.

(b)(6)

Supervisor, WWTP SECTION

Home: (b)(6)

**\*NOTE: Personnel includes all operators, the laboratory technician, the work leader, and the supervisor. Check the schedule for personnel on their RDO.**



*Review Notes Highlighted*

Permit No. WA-002195-4

United States Environmental Protection Agency  
Region 10  
1200 Sixth Avenue  
Seattle, Washington 98101

**AUTHORIZATION TO DISCHARGE  
UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Clean Water Act,  
33 U.S.C. §1251 et seq., as amended by the Water Quality Act of 1987,  
P.L. 100-4 (the "Act"),

**U.S. Department of Defense  
Department of the Army  
Fort Lewis Army Base  
Fort Lewis Washington 98433-5000**

is authorized to discharge from the wastewater facility located at **Fort Lewis** to receiving waters named **Puget Sound (Solo Point)** at:

Latitude 47° 8' 10"  
Longitude 122° 38' 17"

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on **February 1, 2004**.

This permit and the authorization to discharge shall expire at midnight, **February 1, 2009**.

Signed this 30th day of **December, 2003**.

\_\_\_\_\_  
/s/ (b)(6) for  
(b)(6)  
Director, Office of Water, Region 10  
U.S. Environmental Protection Agency

*(Refer to page 18/19 of permit)*  
Most of the responsibilities in this permit is the WWT/Superior's  
responsibility as the permittee - which is signed by <sup>them</sup> the Division  
Chief. Environmental is to make sure we are complying with  
the permit and report to them of any non-compliance offenses and  
such violations, and report will follow from WWT Supervisor with <sup>applicants</sup>