

MEMORANDUM

DATE: December 19, 1996

TO: Christi Davis, United States Navy, Northern Division Naval Facilities Engineering Command

FROM: Allen Stamp/Barry Kline, Fluor Daniel GTI

THROUGH: *Kirti Shah 12/19/96*
Kirti Shah, Foster Wheeler Environmental Corporation

RE: Monthly Operations Summary for the Month of November, 1996
Dolphin Mart, NEX, and OT-8 Sites
Naval Submarine Base New London
Groton, CT

This memorandum serves to summarize the operational activities at the subject sites during the month of November 1996. Attachment 1 contains a summary of the weekly field activities conducted at the Dolphin Mart, NEX, and OT-8 sites. Attachment 2 contains information regarding the carbon usage at the Dolphin Mart and NEX sites.

**Attachment 1
Activity Summary
Groton Naval Submarine Base
Groton, Connecticut**

Week Ending	Site	Period	Field Activities¹	Comments
11/8/96	Dolphin Mart	Bi-weekly Monitoring	Conducted monthly system monitoring.	SVE/air sparge system operating normally.
	NEX		Conducted monthly system monitoring.	SVE system operating normally.
	OT-8		Conducted bi-weekly monitoring. Replaced top-soil, spread, and reseeded trenches.	Product recovery system operating normally. No product recovered during the week, likely due to high water table.
11/15/96	Dolphin Mart	Bi-weekly Maintenance	No Field Activities.	
	NEX		Replaced leaking liquid phase carbon unit with new unit.	
	OT-8		Removed soil pile from OT-8 area and sent off-site for disposal.	
11/22/96	Dolphin Mart	Bi-weekly Maintenance	Completed quarterly groundwater sampling event. Completed DMR sampling event. Collected SVE system air sampling event. Conducted bi-weekly system monitoring.	SVE/air sparge system operating normally.
	NEX		Completed quarterly groundwater sampling event. Completed DMR sampling event. Collected SVE system air sampling event. Conducted bi-weekly system monitoring.	SVE system operating normally.
	OT-8		Conducted bi-weekly system monitoring.	Product recovery system operating normally. No product recovered during the week, likely due to high water table.
11/29/96	Dolphin Mart	Bi-weekly Maintenance	No Field Activities.	
	NEX			
	OT-8			

Note: ¹ Bi-weekly operation and maintenance tasks include well gauging and system monitoring.

Attachment #2

Carbon Breakthrough Matrix
Dolphin Mart and NEX Site

Groton Naval Submarine Base
Groton, CT

Carbon Breakthrough (#) ¹	Sample Date	Sample Time	Influent Conc. (ppmv, PID)	Effluent Conc. (ppmv, PID)	Influent Conc. (ppmv, PGC)	Effluent Conc. (ppmv, PGC)	SVE System Flow Rate (scfm)	Air Sparge System Flow Rate (scfm)	Estimated Breakthrough Time (hours)	Comments
2	7-2-96	17:05	66	8.1	230	50	452	25		Dolphin Mart Site
	7-3-96	8:50	375	289	380	320	448	33		
									15.75	
3	7-11-96	15:10	204.8	0	274	0.0	449	25		Dolphin Mart Site
	7-12-96	7:30	534	268	318	206	450	37		
									16.33	
4	7-12-96	9:55	588	15	NS	NS	450	30		Dolphin Mart Site. System deactivated 7/12/96 15:55 for weekend.
	7-15-96	18:10	366	0.0	NS	NS	449	16		
	7-16-96	9:30	149	77	250	88	442	24		
									21.33	
5	7-19-96	11:30	105	0	NS	NS	440	16		Approx. 1 hour test-only on 7/19/96.
	7-22-96	10:30	142	0	NS	NS	445	15		
	7-23-96	11:20	215	75	NS	NS	449	20		
									25.83	
6	7/24/96	9:45	96	0	NS	NS	450	16		Dolphin Mart Site.

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										System down up to 8 hrs on 7/19/96 for electrical work.
	7/25/96	17:45	84.6	0	NS	NS	446	17		
	7/26/96	11:45	275	192	NS	NS	442	21		
									40	
7	8/1/96	6:20	83.9	0	NS	NS	447.7	20		Dolphin Mart Site. Carbon loading test shut down for weekend 8/2/96.
	8/2/96	15:30	68	0	NS	NS	451	33		
	8/5/96	16:00	102	0	NS	NS	456	29		
	8/6/96	17:45	77.8	5.2	NS	NS	450	33		
	8/7/96	20:00	100.3	12.0	NS	NS	452	22		
	8/8/96	9:15	122.6	74.2	NS	NS	453.5	32		
									48	
8	8/1/96	6:50	6.6	4.5	NS	NS	116	0		NEX Site. A/B Carbon Units.
	8/2/96	15:00	33	7.2	NS	NS	68.5	0		
	8/5/96	15:45	0	0	NS	NS	166	0		
	8/6/96	17:10	3.1	4.0	NS	NS	137	0		
	8/7/96	17:00	2.0	3.3	NS	NS	158	0		

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	8/8/96	9:45	2.3	3.5	NS	NS	135	0	290	
	8/12/96	14:00	65.4	47.6	NS	NS	262	0		
9	8/1/96	6:50	44	8	NS	NS	116	0	189	NEX Site. C/D Carbon Units.
	8/2/96	15:00	46.5	9.1	NS	NS	68.5	0		
	8/5/96	15:45	100	15.8	NS	NS	166	0		
	8/6/96	17:10	60	24.0	NS	NS	137	0		
	8/7/96	17:00	50.6	34	NS	NS	158	0		
	8/8/96	9:45	54.4	44	NS	NS	135	0		
10	8/22/96	12:00	120	0.0	NS	NS	448	30	116	Dolphin Mart Site. C/D Carbon Units
	8/24/96	12:30	141	55	NS	NS	445	35		
11	8/22/96	16:00	29	0.0	NS	NS	232	0		NEX Site. C/D Carbon Units. Carbon units taken off-line 9/4/96.
	8/27/96	9:20	36	12	NS	NS	228	0		
	8/30/96	14:40	26	24	NS	NS	108	0		

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	9/4/96	16:00	49	NA	NS	NS	330	0			
	9/10/96	10:30	52.6	52.6	NS	NS	243	0			
	9/16/96	14:00	35	35	NS	NS	320	0			
	9/27/96	13:00	42.7	42.7	NS	NS	60	0			
	10/2/96	10:00	17	17	NS	NS	84	0			
	10/8/96	12:00	33.7	33.7	NS	NS	413	0			
	10/10/96	12:50	22.3	22.3	NS	NS	282	0			
	10/16/96	13:30	23.8	23.8	NS	NS	259	0			
	10/21/96	14:40	14.6	14.6	NS	NS	281	0			
	10/25/96	15:05	49.9	49.9	NS	NS	173	0			
	10/28/96	12:30	65.0	65.0	NS	NS	350	0			
	11/8/96	17:15	26.3	26.3	NS	NS	342	0			
	11/19/96	14:40	8.7	8.7	NS	NS	324	0			
											NA
	12	8/27/96	12:45	68	1.0	NS	NS	450			32
10/2/96		12:50	47.5	13.7	NS	NS	458	30			
10/8/96		13:10	27	6.5	NS	NS	467	28			
10/16/96		13:00	18	5.4	NS	NS	NS	NS			

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	10/25/96	16:00	23.1	27.5	NS	NS	NS	NS		
	10/28/96	11:30	27.3	13.3	NS	NS	NS	NS		
	11/8/96	11:10	10.3	5.6	NS	NS	NS	NS		
	11/19/96	14:10	2.5	0.0	NS	NS	NS	NS		
									NA	

Notes: 1 The initial carbon breakthrough (not included in this table) occurred during OHM's start-up activities.
 ppmv = parts per million by volume
 PID = photoionization detector
 PGC = portable gas chromatograph
 NS = not sampled

MODE = MEMORY TRANSMISSION

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