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October 10, 2006

Mr. Doug DeLong  
Environmental Compliance Manager  
U.S. Department of the Navy – Caretaker Site Office  
San Francisco Bay Area  
410 Palm Avenue, Building 1 – Suite 161  
San Francisco, California 94130-1806

**Contract Number:** N62474-98-D-2076, Environmental Remedial Action  
**Contract Task Order (CTO):** Multiple CTOs at Alameda Point, Alameda, California  
Document Control Number 10092  
**Subject:** Self-Monitoring Report – 3<sup>rd</sup> Quarter 2006, Wastewater  
Discharge Permit No. 5024981 2, Alameda Point,  
Alameda, California

Dear Mr. DeLong:

This letter report has been prepared pursuant to the Self-Monitoring Reporting Requirements of the East Bay Municipal Utility District (EBMUD) Wastewater Discharge Permit No. 5024981 2. This letter summarizes discharge activities conducted and data collected during the Third Quarter 2006 (July 1 to September 30, 2006) for the pretreatment systems (Building 397 and Site 5) at Alameda Point, Alameda, California. Attached are Tables 1 and 2 that summarize the analytical results for the wastewater discharge samples collected during this reporting period for the Building 397 and Site 5 pretreatment systems.

**Building 397 Pretreatment System**

During this reporting period, the Building 397 pretreatment system operated approximately 2,145 hours. Discharge sampling was conducted on July 27, August 24, and September 14, 2006 for monthly compliance monitoring. The analytical results, summarized in the attached Table 1, indicate continued compliance with EBMUD Wastewater Discharge Permit Number 5024981 2 wastewater discharge limitations.

During this reporting period, a total of 570,000 gallons of groundwater were extracted or collected from several source areas (CAA 4C, Building 397, CAA 11, Building 410, Building 530, CAA 7, and Parcel 37), processed through the Building 397 pretreatment system, and discharged to the sanitary sewer system at Building 397. A breakdown of the volume of water from each source area is as follows:

- Approximately 568,500 gallons from the CAA 4C wellfield

- Approximately 1,000 gallons from the Building 410 and Building 530 wellfields
- Less than 500 gallons from the Building 397, CAA 7, CAA 11, and Parcel 37 wellfields

### **Site 5 Pretreatment System**

The Six-Phase Heating/Vacuum Extraction (SPH/VE) and associated process water treatment system at Site 5 was restarted on August 7, 2006 and operated approximately 928 hours during this reporting period. Process water is generated by the system through the condensation of liquid contained in the vapors extracted from the ground in the contaminated plume area. At the time of start up, electrical resistance heating of the area is minimal, therefore the amount of condensed liquid, or process water, generated is nominal. Effective start up system sampling cannot occur until at least the void volume of the liquid process system has been generated, in order to expel the clean water used to saturate the new liquid-phase granular activated carbon and to test the level switches in the knockout tank and condensate transfer stations. The estimated void volume of the Site 5 process water treatment system is 1,500 gallons.

Wastewater sampling was conducted on August 31, 2006 for system start up compliance monitoring. The analytical results, summarized in the attached Table 2, indicate compliance with EBMUD Wastewater Discharge Permit Number 5024981 2 wastewater discharge limitations. During this reporting period, a total of 11,000 gallons of process water was generated by the SPH/VE system, processed through the associated treatment system at Site 5, and discharged to the sanitary sewer system. Monthly compliance monitoring will be performed on October 6, 2006, and will be reported in the following quarter.

### **Site 4 Pretreatment System**

The Site 4 pretreatment system is scheduled to commence discharge in the fourth quarter 2006. Start up and compliance testing in accordance with the permit revision dated September 18, 2006 will be included in the next Quarterly Report.

Should you have any questions or need additional information please contact me at (925) 383-8139.

Sincerely,



Shaw Environmental, Inc.

James Perkins

Professional Geologist 4472

Attachments: Table 1  
Table 2

cc: Michelle Hurst, U.S. Navy  
Steve Peck, U.S. Navy  
Gregory Grace, U.S. Navy ROICC  
John McGuire, Shaw  
John McMillan, Shaw  
U.S. Navy Basic Contract File (w/o enclosure)  
Shaw Project File  
Shaw Concord Library

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## *Tables*

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**Table 1**  
**Building 397 Pretreatment System, Effluent Water Analytical Summary,**  
**Third Quarter 2006**

Constituents <sup>(1)</sup>	Discharge Limits <sup>(2)</sup> (µg/L)	Effluent Concentration (µg/L)		
		7/27/06	8/24/06	9/14/06
<b>VOCs<sup>(3)</sup></b>				
Benzene	5	ND<0.5 <sup>(4)</sup>	ND<0.5	ND<0.5
Toluene	5	ND<0.5	ND<0.5	ND<0.5
Ethylbenzene	5	ND<0.5	ND<0.5	ND<0.5
Total Xylenes	5	ND<1	ND<1	ND<1
TICH <sup>(5)</sup>	500	ND <sup>(6)</sup>	ND	ND
<b>SVOCs<sup>(7)</sup></b>				
bis(2-Ethylhexyl) phthalate	N/A <sup>(8)</sup>	ND<9.4	ND<9.4	2.6 J
Pyrene	N/A	ND<9.4	ND<9.4	ND<9.4
<b>Others</b>				
Hydrocarbon - Oil & Grease <sup>(10)</sup>	100,000	ND<4,700	ND<5,000	ND<4,700

**Notes:**

- 1) The non-listed constituents were not detected at or above their reported practical quantitation limit (PQL), except for *tert*-Butyl Alcohol (TBA) which had a reported PQL of 10 micrograms per liter (µg/L) and was detected at 10 µg/L. However, TBA is not a constituent of the influent vapor stream, so the detection is suspected to be due to cross-contamination by the laboratory.
- 2) Discharge limits as defined in East Bay Municipal and Utility District (EBMUD) Wastewater Discharge Permit No. 5024981 2 and EBMUD Ordinance No. 311.
- 3) The samples were analyzed by US Environmental Protection Agency (EPA) Method 8260B.
- 4) ND<0.5 - Constituent not detected at or above the reported PQL of 0.5 µg/L.
- 5) TICH - Total Identifiable Chlorinated Hydrocarbons.
- 6) No TICHs were detected at or above their reported PQLs.
- 7) The samples were analyzed by US EPA Method 8270C.
- 8) N/A - No discharge limit defined in EBMUD Wastewater Discharge Permit No. 5024981 2 or EBMUD Ordinance No. 311.
- 9) J - Estimated value.
- 10) The samples were analyzed by US EPA Method 1664-SGT.

SVOC - semivolatile organic compound

VOC - volatile organic compound

**Table 2**  
**Building 5 Pretreatment System, Effluent Water Analytical Summary,**  
**Third Quarter 2006**

Constituents <sup>(1)</sup>	Discharge Limits <sup>(2)</sup> (µg/L)	Effluent Concentration (µg/L)
		8/31/2006
<b>Cyanide and Metals<sup>(3)</sup></b>		
Cyanide (Total)	5,000	ND<10 <sup>(4)</sup>
Cadmium (Total)	1,000	ND<1
Chromium (Total)	2,000	ND<1
Copper (Total)	5,000	10
Lead (Total)	2,000	3
Mercury (Total)	50	ND<0.2
Nickel (Total)	5,000	12
Silver (Total)	1,000	ND<1
Zinc (Total)	5,000	29
<b>VOCs<sup>(5)</sup></b>		
Benzene	5	1
Isopropyl Benzene	N/A <sup>(6)</sup>	3
TICH <sup>(7)</sup>	500	2 <sup>(8)</sup>
<b>Others</b>		
Hydrocarbon Oil & Grease <sup>(9)</sup>	100,000	ND<5,000

**Notes:**

- 1) The non-listed constituents were not detected at or above their reported practical quantitation limit (PQL).
- 2) Discharge limits as defined in East Bay Municipal Utility District (EBMUD) Wastewater Discharge Permit No. 5024981 2 and EBMUD Ordinance No. 311.
- 3) The samples were analyzed by US Environmental Protection Agency (EPA) Methods 6010B/7471 and 335.1/335.2.
- 4) ND<10 - Constituent not detected at or above the reported PQL of 10 µg/L.
- 5) The samples were analyzed by US EPA Method 624/8260B.
- 6) N/A - No discharge limit defined in EBMUD Wastewater Discharge Permit No. 5024981 2 or EBMUD Ordinance No. 311.
- 7) TICH - Total Identifiable Chlorinated Hydrocarbons
- 8) Constituents detected were 1,1-Dichloroethane (0.5J µg/L), cis-1,2-Dichloroethene (0.8 µg/L), and Vinyl Chloride (0.62 µg/L).
- 9) The samples were analyzed by US EPA Method 1664-SGT/413.1.

SVOC - semivolatile organic compound

VOC - volatile organic compound

## ANALYTICAL DATA

RAW ANALYTICAL DATA IS NOT REQUIRED TO BE LOCATED  
AT OR NEAR THE INSTALLATION AND INFORMATION  
REPOSITORY.

FOR ADDITIONAL INFORMATION, CONTACT:

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