

Detterman, Mark, Env. Health

From: Hoehn, Greg [Greg.Hoehn@stantec.com]
Sent: Friday, November 20, 2009 11:33 AM
To: Detterman, Mark, Env. Health
Cc: Gary.J.Bankhead@kp.org; Cynthia.Holloway@kp.org; Daniel.O.Nechkash@kp.org
Subject: Fuel Leak Case No. RO0000205 (Global ID No. T0600101504), Kaiser Development, 3735-3799 Broadway in Oakland
Attachments: Startup Report (10-30-07).pdf; Annual 2007 NPDES Report_Final.pdf; 2q08 rpt_fnl.pdf

Mark:

As we discussed, attached are the NPDES reports that were submitted to the RWQCB while the dewatering system operated under the NPDES permit. These reports have been uploaded into Geotracker. Approximately 7.5 million gallons of water were discharged under the NPDES permit. Note that prior to the discharge under the NPDES permit, approximately 6.5 million gallons of water were discharged under an EBMUD permit, resulting in the total volume of approximately 14 million gallons.

To reiterate our discussion regarding the waste oil tank, access to the former waste oil tank location would be difficult to impossible due to the thickness of concrete that was used in the building construction and the extensive utility corridor in the back of the building in the former UST area. Any additional data that could be gained would be superfluous to the data that was collected at the time the UST was removed. It is our stance that the soil excavation that was completed in the area of the former waste oil UST, along with the excavation completed for the entire development, has resulted in the substantial site cleanup and has effectively removed contaminated soil that could act as a potential contamination source to groundwater. Additionally, the extraction of the 14 million gallons of groundwater referenced above to dewater the construction has effectively removed residual groundwater contamination that was present prior to the redevelopment. These factors, in conjunction with the ongoing groundwater monitoring of the upgradient Glovatorium project and the downgradient Chevron project should provide Alameda County Environmental Health with ample data to close this project.

Please review the attachments and contact me with if you have any further questions regarding the water that was extracted, treated and discharged or the waste oil tank removal portion of the project.

Sincerely,

Greg Hoehn
Principal Geologist
Stantec
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Stantec

July 23, 2008

Ms. Lourdes Gonzales
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Re: Fuels General NPDES Permit, CAG 912002
Second Quarter 2008 Report – Temporary Groundwater Dewatering System
3701-3799 Broadway in Oakland, California
WDID 2079465001
PN: 05OT.50238.01.0003

Dear Ms. Gonzales Ms. Lourdes Gonzales:

Stantec Consulting Corporation (Stantec; formerly SECOR International Incorporated [SECOR]) is pleased to submit the enclosed NPDES Second Quarter 2008 Report (Report) for the Temporary Dewatering System located at 3701-3799 Broadway in Oakland, California (the Site). There were no effluent limit violations reported during the period April 1, 2008 through June 30, 2008. The system was shut down on May 19, 2008, and permanently disassembled on June 26, 2008. The June 2008 compliance sampling was therefore not completed. Stantec requests termination of coverage under the Permit for this Site.

Sincerely,

STANTEC CONSULTING INC.

Greg D. Hoehn
Principal Geologist
Tel: (925) 299-9300
Fax: (925) 299-9302
Greg.Hoehn@stantec.com

Attachment:

c. Gary Bankhead, Kaiser Permanente
David Grede, Kaiser Permanente
Angeles Garcia, McCarthy

**Second Quarter 2008 Report
Temporary Groundwater
Dewatering System**

3701-3799 Broadway
Oakland, California
PN: 05OT.50238.01



July 23, 2008



Kaiser Foundation Health Plan, Inc.
NFS Capital Projects
East Bay

October 18, 2007

Ms. Lou Gonzales
California Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Attn: NPDES Wastewater Division
Fuel General NPDES No. CAG912002

Re: SECOR Authorization Letter for NPDES Permit Reporting
WDID: 2 079465001
Kaiser Permanente, Oakland MOB Replacement Temporary Dewatering Project
3701-3799 Broadway
Oakland, California

Dear Ms. Gonzales:

This letter authorizes Greg Hoehn, Project Manager with SECOR International Incorporated (SECOR), to act as a duly authorized representative on behalf of Kaiser Foundation Health Plan, Inc. (Kaiser Permanente). This letter gives Mr. Hoehn the authority to sign all future reports, letters and correspondence addressed to the Regional Water Quality Control Board, State Water Resources Control Board or U.S. Environmental Protection Agency regarding the National Pollutant Discharge Elimination System (NPDES) permit for the project referenced above (WDID 2 079465001).

If you should have any questions, please feel free to contact me at (510) 618-5886.

Sincerely,

Kaiser Foundation Health Plan, Inc.


Gary Bankhead
Senior Project Manager

cc: Dave Grede, Kaiser Permanente
Greg Hoehn, SECOR

Limitations and Certifications

This report was prepared in accordance with the scope of work outlined in Stantec's Consulting Corporation (Stantec; formerly SECOR International Incorporated [SECOR]) contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Kaiser Permanente for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

Prepared by:

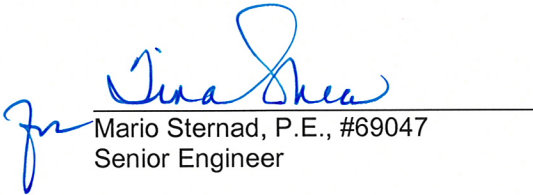


Mason Albrecht
Staff Engineer

Reviewed by:



Greg D. Hoehn
Principal Geologist



Mario Sternad, P.E., #69047
Senior Engineer

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Note: Tables and Figures appear at end of report.

1.0 Introduction

Stantec Consulting Corporation (Stantec; formerly SECOR International Incorporated [SECOR]), on behalf of Kaiser Foundation Health Plan, Inc. (Kaiser Permanente), has prepared this Second Quarter 2008 Report for the Temporary Groundwater Dewatering System (TGDS) located at 3701-3799 Broadway in Oakland, California (the Site; see Figures 1 and 2). This report is being submitted to the Regional Water Quality Control Board (RWQCB) in compliance with National Pollutant Discharge Elimination System (NPDES), Fuels General Permit No. CAG912002/Order No. R2-2006-0075 (Permit). This report covers the period April 1, 2008, through June 30, 2008.

No effluent limit violations were reported during the reporting period. The system was shut down on May 19, 2008, and permanently disassembled on June 26, 2008. The June 2008 compliance sampling was therefore not completed. Stantec requests termination of coverage under the Permit for this Site.

Trigger levels for five metals (cadmium, copper, lead, nickel, and zinc) were exceeded during startup sampling in October 2007. Based on the startup results, trigger sampling was completed in the First Quarter 2008. The trigger level for thallium was exceeded during the First Quarter 2008 sampling in February 2008, but analytical results for thallium during the Second Quarter 2008 sampling events on March 31, 2008, and May 1, 2008, were below reporting limits. Results of March 31, 2008, and May 1, 2008, trigger sampling are included herein and a separate trigger study report will therefore not be issued. Section 6.0 describes trigger level compliance in further detail.

2.0 System Description

Operation of a TGDS at the Site began on May 7, 2007, with discharge under East Bay Municipal Utility District (EBMUD) Wastewater Special Discharge Permit #5061528-1. Discharge under the NPDES Permit began on October 12, 2007. The TGDS consists of three 20,000-gallon Baker tanks, one 6,500-gallon Poly tank, a three-pod sand filter, and four 2,000-pound liquid-phase granular activated carbon (LGAC) adsorption vessels, connected in two rows of two vessels, in series. System effluent is metered through a McCrometer propeller meter/totalizer prior to discharge to the local storm sewer system under the NPDES Permit. A piping and instrumentation diagram (P&ID) for the system is presented in Figure 3.

3.0 System Operational Status

During this reporting period, the TGDS operated continuously until May 19, 2008, when the system was shut down. Email notification and Attachment H – Notice of Temporary Shut Down, were sent to the RWQCB on May 20, 2008, and May 30, 2008, respectively. The system was decommissioned on June 26, 2008, residual water in the system was discharged and system components were cleaned and removed from the Site; allowing for termination of coverage under the Permit.

Total volume pumped during the period was approximately 1,629,250 gallons at an average flow rate of approximately 22.89 gallons per minute (gpm) or 0.033 million gallons per day. Since system startup in October 2007, approximately 7,640,050 gallons of water have been extracted and 2.10 pounds of organic contaminants have been removed. Normal TGDS operation and maintenance (O&M) was performed during the period, following the procedures outlined in the O&M Manual dated October 8, 2007.

4.0 Compliance Sampling Events

Site TGDS compliance monitoring was completed per the NPDES Permit, Attachment E, Monitoring and Reporting Program (MRP). All compliance samples collected during the period were packaged and transported on ice to Curtis & Tompkins, Ltd. (C&T), a California state-certified laboratory, using chain-of-custody protocol. Sampling was completed during this period, according to the schedule listed in the Permit, Attachment E, Table E.2 – Schedule for Sampling, Measurements and Analysis.

4.1 MONTHLY SAMPLING

Monthly compliance sampling was completed on March 31, 2008, and May 1, 2008. Because the system was shut down in May 2008, no June 2008 compliance samples were collected. Monthly samples were analyzed for the following:

- Purgeable hydrocarbons as gasoline (TPHg), extractable petroleum hydrocarbons as diesel (TPHd), and hydraulic fluid (TPHhf) by U.S. Environmental Protection Agency (EPA) Method 8015B.
- Benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method 8260B.
- Trigger level sampling for the metals thallium by ICP/MS, EPA Method 6020.
- Total Dissolved Solids (TDS) by EPA Method SM 2540C.
- Electrical conductivity, temperature, and pH.

In addition, receiving water samples were collected monthly from upstream and downstream storm-water inlet monitoring stations, RSW-001U and RSW-001D during each compliance monitoring event. The storm-water inlets are connected to a 69-inch-diameter reinforced concrete pipe (RCP) storm line, and located approximately 135 feet upstream and 225 feet downstream of the NPDES discharge point, respectively. Samples from RSW-001U and RSW-001D were collected monthly on March 31, 2008 (April compliance sampling) and May 1, 2008, and analyzed as follows:

- Salinity by Standard (STD) Method 2520B.
- Hardness by EPA Method 130.2.

Monthly field visits included observations of site conditions such as wind direction/speed, precipitation levels, ambient temperature, odors, turbidity, discoloration, suspended material, TGDS float operation, deposits, or plugging. Water temperature was also measured in the field by a Stantec technician during each field visit.

4.2 QUARTERLY SAMPLING

Quarterly samples were collected on March 31, 2008, and analyzed as follows:

- TPHg, TPHd, TPHhf, BTEX, and MTBE by EPA Method 8015B/8260B.
- Turbidity by EPA Method SM2130B.
- Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310.
- TDS by EPA Method SM 2540C
- Electrical conductivity, temperature, and pH.

A quarterly 96-hour fish bioassay (percent survival of rainbow trout) sample was also collected on March 31, 2008, and analyzed by Block Environmental Services of Pleasant Hill, California.

4.3 ANNUAL SAMPLING

Annual compliance sampling was not performed during this reporting period.

5.0 Laboratory and Field Physical/Chemical Analysis Results

Site conditions for all field and O&M visits are summarized in Table 1. Current and historical analytical results for TPHg, TPHd, TPHhf, BTEX compounds, MTBE, PAHs, EDB, VOCs, SVOCs, turbidity, TDS, cyanide, electrical conductivity, pH, temperature, salinity, and hardness are presented in Table 2. Results of metals analysis are presented in Table 3. The total volume of extracted groundwater and contaminants removed are summarized in Table 4.

6.0 Compliance Record

Based on field data and laboratory analytical results summarized on Tables 1, 2, 3, and 4, the TGDS operated in compliance with NPDES Permit requirements during Second Quarter 2008. As described in Section 3.0, system shutdown occurred on May 19, 2008, and system components were subsequently removed from the Site.

A concentration of 0.14 microgram per liter ($\mu\text{g/L}$; estimated) thallium, exceeding a trigger level of 0.1 $\mu\text{g/L}$ was reported during the February 1, 2008, sampling event. Thallium was not detected in the system influent or effluent samples collected on March 31 and May 1, 2008. Results of March 31, 2008, and May 1, 2008, trigger sampling are included herein and a separate trigger study report will therefore not be issued.

TABLES

Second Quarter 2008 Report – Temporary Groundwater
Dewatering System
3701-3799 Broadway
Oakland, California
PN: 05OT.50238.01
July 23, 2008

TABLE 2 - NPDES PERMIT CHEMICAL ANALYSIS
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway
 Oakland, California

INFLUENT/EFFLUENT MONITORING TABLE

Sample ID/ US EPA Method ⁵	Sample Date	TPHg (8015B) (µg/L)	TPHd, TPHhf (8015B) (µg/L)	PAHs (8310) (µg/L)	EDB/VOCs (8260B) (µg/L)	Oxygenates (8260B) (µg/L)	Ethanol/ Methanol (8015B) (mg/L)	All other SVOCs (8270C) (µg/L)	Turbidity (SM2130B) (NTU)	TDS (SM2540C) (mg/L)	Cyanide (SM4500 CN-E) (mg/L)	EC (µmhos/cm)	Temp (°F)	pH	Salinity (SM 2520B) (ppt)	Hardness (EPA 130.2) (mg/L as CaCO3)	Fish Bioassay, 96 hr (% survival, rainbow trout)
MDLs		3.3-14	9.5-26	0.003-0.08	0.06-0.1	0.04-2.6	0.21-0.27	0.14-3.0									
INF-001	10/11/2007	23J	39J, ND(<300)	ND(<0.10-1.9)	ND(<5), (0.2J - 2.9J) ¹	ND(<5-10)	ND(<1), ND(<1)	ND(<9.4-47) ³	56.5	310	ND(<0.01)	480	65	6.7	---	---	---
EFF-001	10/11/2007	39J	ND(<50), ND(<300)	ND(<0.10-1.9)	ND(<0.5), (0.05J - 0.6J) ²	ND(<5-10)	ND(<1), ND(<1)	ND(<9.4-47)	0.35	480	ND(<0.01)	830	65	7.0	---	---	100
INF-001	10/16/2007	10J	28J, ND(<300)	---	---	---	---	---	---	---	ND(<0.01)	780	68	6.8	---	---	---
EFF-001	10/16/2007	16J	ND(<50), ND(<300)	---	---	---	---	---	1.4	470	ND(<0.01)	820	64	7.0	---	---	---
INF-001	11/1/2007	---	---	---	---	---	---	---	---	---	---	---	70	6.7	---	---	---
EFF-001	11/1/2007	16J	ND(<50), ND(<300)	---	---	---	---	---	---	500	---	700	68	7.0	---	---	---
INF-001	12/4/2007	---	---	---	---	---	---	---	---	---	---	---	65	6.9	---	---	---
EFF-001	12/4/2007	25J ⁴	ND(<50), ND(<300)	---	---	---	---	---	---	510	---	660	63	7.2	---	---	---
INF-001	1/3/2008	28J	ND(<50), ND(<300)	ND(<0.09-1.9)	---	---	---	---	---	---	---	---	67	6.6	---	---	---
EFF-001	1/3/2008	26J	ND(<50), ND(<300)	ND(<0.09-1.9)	---	ND(<0.5-10)	ND(<1), ND(<1)	---	1.3	480	---	900	60	6.9	---	---	95
INF-001	2/1/2008	---	ND(<50), ND(<300)	---	ND(<0.5), (0.05J-2.9) ⁶	(0.05J, 0.2J) ⁷	ND(<1), ND(<1)	ND(<9.4-47)	---	---	ND(<0.01)	---	67	6.5	---	---	---
EFF-001	2/1/2008	32J	ND(<50), ND(<300)	---	ND(<0.5), (0.2J-0.5) ⁸	---	---	ND(<9.4-47)	---	420	ND(<0.01)	520	59	6.7	---	---	---
RSW-001U	2/1/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(<0.50)	150	---
RSW-001D	2/1/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(<0.50)	140	---
INF-001	3/3/2008	---	---	---	---	---	---	---	---	---	---	---	68	6.7	---	---	---
EFF-001	3/3/2008	15J	ND(<50), ND(<300)	---	---	---	---	---	---	470	---	940	66	7.0	---	---	---
RSW-001U	3/3/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(<0.50)	170	---
RSW-001D	3/3/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(<0.50)	270	---
INF-001	3/31/2008 ¹³	17J	38J, ND(<300)	ND(<0.09-1.9)	---	---	---	---	---	---	---	---	68	6.6	---	---	---
EFF-001	3/31/2008 ¹³	17J	35J, ND(<300)	ND(<0.09-1.9)	---	---	---	---	2.5	590	---	790	64	6.7	---	---	100
MID-001A	3/31/2008 ¹³	16J	---	---	ND(<0.5), 0.3J ⁹	ND(<0.5-10)	---	---	---	---	---	---	---	---	---	---	---
MID-001B	3/31/2008 ¹³	12J	---	---	ND(<0.5), 0.3J ^{9, 10}	ND(<0.5-10)	---	---	---	---	---	---	---	---	---	---	---
RSW-001U	3/31/2008 ¹³	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(<0.5)	160	---
RSW-001D	3/31/2008 ¹³	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(<0.5)	300	---
INF-001	5/1/2008 ¹⁴	---	---	---	---	---	---	---	---	---	---	---	---	6.3	---	---	---
EFF-001	5/1/2008 ¹⁴	36J ¹¹	19J ¹² , ND(<300)	---	---	---	---	---	---	570	---	670	---	6.6	---	---	---
RSW-001U	5/1/2008 ¹⁴	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(<0.5)	190	---
RSW-001D	5/1/2008 ¹⁴	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(<0.5)	310	---

Notes:

- | | | | |
|--------------|---|------------|--|
| 1,2-DCA = | 1,2-dichloroethane | TAME = | Methyl tertiary amyl ether |
| BTEX = | Benzene, Toluene, Ethyl Benzene, Xylenes | TBA = | Tertiary Butyl Alcohol |
| DIPE = | Isopropyl ether | TPHd = | Total Petroleum Hydrocarbons, as diesel |
| EC = | Electrical Conductivity | TPHg = | Total Petroleum Hydrocarbons, as gasoline |
| EDB = | Ethylene Dibromide | TPHhf = | Total Petroleum Hydrocarbons, as hydraulic fluid |
| MTBE = | Methyl Tertiary Butyl Ether | NTU = | Nephelometric turbidity units |
| ETBE = | Ethyl Tertiary Butyl Ether | µmhos/cm = | micromhos per centimeter |
| PAHs = | Poly Aromatic Hydrocarbons | ppt = | parts per thousand |
| SVOCs = | Semi-volatile Organic Compounds | CaCO3 = | Calcium Carbonate |
| VOCs = | Volatile Organic Compounds | --- | Not analyzed |
| TDS = | Total dissolved solids | ND = | Not detected at specified laboratory reporting limits. |
| Oxygenates = | TAME, DIPE, ETBE, EDB, TBA and 1,2-DCA (MTBE conc. shown below) | °F = | Degrees Fahrenheit |
| | | J = | Estimated Value |
| | | µg/L = | micrograms per liter |
| | | mg/L = | milligrams per liter |

- Constituents were reported with estimated concentrations: 1.7J µg/L acetone, 0.2J µg/L carbon disulfide, 0.6J µg/L chloroform, 0.8J µg/L carbon tetrachloride, 2.9J µg/L 2-butanone, 1.7J µg/L tetrochloroethylene, and 2.4J µg/L MTBE.
- Laboratory blank QA/QC was found to contain 0.09J µg/L chloroform, 0.04J µg/L n-butylbenzene, 0.1J µg/L naphthalene.
- Other constituents were reported with estimated concentrations: 1.3J µg/L bis(2-Ethylhexyl)phthalate.
- Laboratory blank QA/QC was found to contain 18J µg/L TPH-g.
- Unless otherwise noted, sample holding times for all samples collected during the period were met by the laboratory.
- Other constituents were reported with concentrations: 0.05J µg/L DIPE, 0.06J µg/L trichlorofluoromethane, 0.1J µg/L 1,1-dichloroethane, 0.5J µg/L methylene chloride, 2.3 µg/L MTBE, 0.3J µg/L 2-butanone, 0.2J µg/L cis-1,2-dichloroethane, 0.7 µg/L chloroform, 2.9 µg/L tetrachloroethene, 0.2J µg/L trichloroethene, 1.7 µg/L benzene, 0.2J µg/L 1,2-dichloroethane, 0.2J µg/L carbon tetrachloride. Laboratory blank QA/QC was found to contain 0.03J µg/L n-butylbenzene and 0.08J µg/L naphthalene.
- Constituents were reported with estimated concentrations: 0.05J µg/L DIPE and 0.2J µg/L 1,2-DCA.
- Constituents were reported with estimated concentrations: 0.3J µg/L acetone, 0.2J µg/L chloroform, and 0.5 µg/L MTBE.
- Constituents were reported with estimated concentrations: 0.3J µg/L chloroform.
- Laboratory blank QA/QC was found to contain .03J µg/L sec-butylbenzene.
- Laboratory blank QA/QC was found to contain 21J µg/L TPH-g.
- Laboratory blank QA/QC was found to contain 20J µg/L TPH-d.
- Sampling which occurred on 3/31/08 was considered the April compliance event.
- The system was shutdown on May 19, 2008 and therefore June sampling was not completed.

TABLE 2 - NPDES PERMIT CHEMICAL ANALYSIS
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway
 Oakland, California

DISCHARGE LIMITATIONS TABLE

Sample ID/ US EPA Method	Sample Date	Benzene (8260B) (µg/L)	CCl4 (8260B) (µg/L)	CF (8260B) (µg/L)	1,1 - DCA (8260B) (µg/L)	1,2 - DCA (8260B) (µg/L)	1,1 - DCE (8260B) (µg/L)	Ethyl benzene (8260B) (µg/L)	Methylene Chloride (8260B) (µg/L)	PCE (8260B) (µg/L)	Toluene (8260B) (µg/L)	cis - 1,2 - DCE (8260B) (µg/L)	trans - 1,2 - DCE (8260B) (µg/L)	1,1,1 - TCA (8260B) (µg/L)	1,1,2 - TCA (8260B) (µg/L)	TCE (8260B) (µg/L)	VC (8260B) (µg/L)	Total Xylenes (8260B) (µg/L)	MTBE (8260B) (µg/L)	TPH - G, D (8015B) (µg/L)	EDB (8260B) (µg/L)	Freon 113 (8260B) (µg/L)
MDLs		0.1-0.3	0.06-0.1	0.03-0.2	0.04-0.05	0.05-0.09	0.07-0.09	0.03-0.1	0.1-0.2	0.01-0.2	0.06-0.1	0.04-0.1	0.06-0.1	0.03-0.1	0.04-0.09	0.04-0.1	0.08-0.1	0.07-0.3	0.03-0.05	3.3-14, 9.5-26	0.06-0.1	0.05-0.1
EFFLUENT LIMITATIONS		1	0.5	5	5	0.5	0.11	5	5	1.6	5	5	5	5	1.2	5	0.5	5	5	50	0.05	5
INF-001 EFF-001	10/11/2007 10/11/2007	ND(<5) ND(<1)	0.8J ND(<0.5)	0.6J 0.05J	ND(<5) ND(<5)	ND(<5) ND(<0.5)	ND(<5) ND(<0.5)	ND(<5) ND(<5)	ND(<10) ND(<10)	1.7J ND(<0.8)	ND(<5) ND(<5)	ND(<5) ND(<5)	ND(<5) ND(<5)	ND(<5) ND(<5)	ND(<5) ND(<0.6)	ND(<5) ND(<2.7)	ND(<5) ND(<0.5)	ND(<5) ND(<5)	2.4J 0.6J	23J, 39J 39J, ND(<50)	ND(<5) ND(<0.5)	ND(<5) ND(<5)
INF-001 EFF-001	10/16/2007 10/16/2007	ND(<0.5) ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	ND(<0.5) ND(<0.5)	--- ---	--- ---	ND(<0.5) ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	ND(<0.5) ND(<0.5)	1.2 0.7	10J, 28J 16J, ND(<50)	--- ---	--- ---
INF-001 EFF-001	11/1/2007 11/1/2007	--- ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ND(<0.5)	--- ---	--- ---	--- ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ND(<0.5)	--- 0.5	--- 16J, ND(<50)	--- ---	--- ---
INF-001 EFF-001	12/4/2007 12/4/2007	--- ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ND(<0.5)	--- ---	--- ---	--- ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ND(<0.5)	--- 0.4J	--- 25J, ND(<50)	--- ---	--- ---
INF-001 EFF-001	1/3/2008 1/3/2008	ND(<0.5) ND(<0.5)	--- ---	--- ---	--- ---	--- ND(<0.5)	--- ---	ND(<0.5) ND(<0.5)	--- ---	--- ---	ND(<0.5) ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	ND(<0.5) ND(<0.5)	0.2J 0.3J	28J, ND(<50) 26J, ND(<50)	--- ---	--- ---
INF-001 EFF-001	2/1/2008 2/1/2008	ND(<0.5) ND(<0.5)	--- ---	0.7 0.2J	ND(<0.5) ND(<0.5)	0.2J ND(<0.5)	0.1J ND(<0.5)	ND(<0.5) ND(<0.5)	--- ---	2.9 ND(<0.5)	ND(<0.5) ND(<0.5)	0.2J ND(<0.5)	ND(<0.5) ND(<0.5)	ND(<0.5) ND(<0.5)	ND(<0.5) ND(<0.5)	0.2J ND(<0.5)	ND(<0.5) ND(<0.5)	ND(<0.5) ND(<0.5)	2.3 0.5	--- 32J, ND(<50)	ND(<0.5) ND(<0.5)	ND(<2.0) ND(<2.0)
INF-001 EFF-001	3/3/2008 3/3/2008	--- ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ND(<0.5)	--- ---	--- ---	--- ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ND(<0.5)	--- 0.2J	--- 15J, ND(<50)	--- ---	--- ---
INF-001 EFF-001	3/31/2008 ¹ 3/31/2008 ¹	ND(<0.5) ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	ND(<0.5) ND(<0.5)	--- ---	--- ---	ND(<0.5) ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	ND(<0.5) ND(<0.5)	0.3J 0.2J	17J, 38J 17J, 35J	--- ---	--- ---
INF-001 EFF-001	5/1/2008 ² 5/1/2008 ²	--- ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ND(<0.5)	--- ---	--- ---	--- ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ND(<0.5)	--- ND(<0.5)	--- 36J, 19J	--- ---	--- ---

Notes:
 CCl4 = Carbon Tetrachloride
 CF = Chloroform
 1,1-DCA = 1,1-Dichloroethane
 1,2-DCA = 1,2-Dichloroethane
 1,1-DCE = 1,1-Dichloroethene
 cis-1,2-DCE = cis-1,2-Dichloroethene
 trans-1,2-DCE = trans-1,2-Dichloroethene
 EDB = Ethylene Dibromide
 --- = Not analyzed
 J = Estimated Value
 ND = Not detected at specified laboratory reporting limits.

MTBE = Methyl Tertiary Butyl Ether
 PCE = Tetrachloroethene
 1,1,1-TCA = 1,1,1-Trichloroethane
 1,1,2-TCA = 1,1,2-Trichloroethane
 TCE = Trichloroethene
 Freon 113 = Trichlorotrifluoroethane or 1,1,2-Trichloro-1,2,2-Trifluoroethane
 TPH-G,D = Total Petroleum Hydrocarbons, as gasoline or as diesel
 VC = Vinyl chloride
 µg/L = micrograms per liter

1. Sampling which occurred on 3/31/08 was considered the April compliance event.
 2. The system was shutdown on May 19, 2008 and therefore June compliance sampling was not completed.

TABLE 3 - NPDES PERMIT METALS ANALYSIS
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway
 Oakland, California

Date Sampled:				10/11/2007	10/11/2007		10/16/2007	10/16/2007		1/3/2008	1/3/2008		2/1/2008	2/1/2008		3/3/2008
Sample ID:	US EPA Method	Effluent Trigger Limits (µg/l)	MDLs 10/11/2007 (µg/l)	INF-001 (µg/l)	EFF-001 (µg/l)	MDLs 10/16/2007 (µg/l)	INF-001 (µg/l)	EFF-001 (µg/l)	MDLs 01/03/2008 (µg/l)	INF-001 (µg/l)	EFF-001 (µg/l)	MDLs 02/01/2008 (µg/l)	INF-001 (µg/l)	EFF-001 (µg/l)	MDLs 03/03/2008 (µg/l)	INF-001 (µg/l)
Antimony	6010B/6020/200.8	6.0	0.072	0.098J	ND(<1.0)	0.072	ND(<1.0)	0.11J	---	---	---	0.072	0.18J	0.28J	---	---
Arsenic	6010B/6020/200.8	10	0.11	0.95J	0.66J	0.11	0.78J	ND(<1.0)	---	---	---	0.11	0.52J	0.33J	---	---
Beryllium	6010B/6020/200.8	1.0	0.053	0.084J	ND(<1.0)	0.053	ND(<1.0)	0.086J	---	---	---	0.053	0.055J	0.079J	---	---
Cadmium	6010B/6020/200.8	0.07	0.041	0.24J	ND(<1.0)	0.041	0.075J	0.14J	0.041	14	0.95J	0.041	0.084J	0.095J	0.068	ND(<1.0)
Total Chromium (Cr)	6010B/6020/200.8	11	0.11	9.30	3.4	0.11	7	2.8	---	---	---	0.11	2.8	2.5	---	---
Hexavalent Cr	7196A	11	10	20	ND(<10)	10	ND(<10)	ND(<10)	---	---	---	10	ND(<10)	ND(<10)	---	---
Copper	6010B/6020/200.8	3.1	0.18	2.4	1.6	0.18	2.2	4.4	1.6	2.1J	2.3J	0.18	0.76J	5.9	0.39	1.1J
Lead	6010B/6020/200.8	2.0	0.073	0.38J	1.6	0.073	0.35J	3.8	1.1	ND(<3.4)	ND(<3.4)	0.073	0.92J	2.7	0.052	ND(<1.0)
Mercury	1631	0.025	0.0002 - 0.0004	0.0195J	0.0052J	0.0002 - 0.0004	0.0431	0.0046	---	---	---	0.0002	0.0193	0.0033	---	---
Nickel	6010B/6020/200.8	8.2	0.16	16	15	0.16	17	15	0.65	12	12	0.16	12	8.5	0.12	15
Selenium	6010B/6020/200.8	5.0	0.074	1.3	0.27J	0.074	0.18J	0.26J	---	---	---	0.074	0.20J	0.29J	---	---
Silver	6010B/6020/200.8	1.9	0.027	0.032J	ND(<1.0)	0.027	ND(<1.0)	0.080J	---	---	---	0.027	0.028J	0.061J	---	---
Thallium	6010B/6020/200.8	0.1	0.019	0.099J	ND(<1.0)	0.019	ND(<1.0)	0.024J	---	---	---	0.019	ND(<1.0)	0.14J	---	---
Zinc	6010B/6020/200.8	35	1.6	8.6	91	1.6	27	96	3.1	4.6J	69	1.6	13	56	0.65	13

Notes:

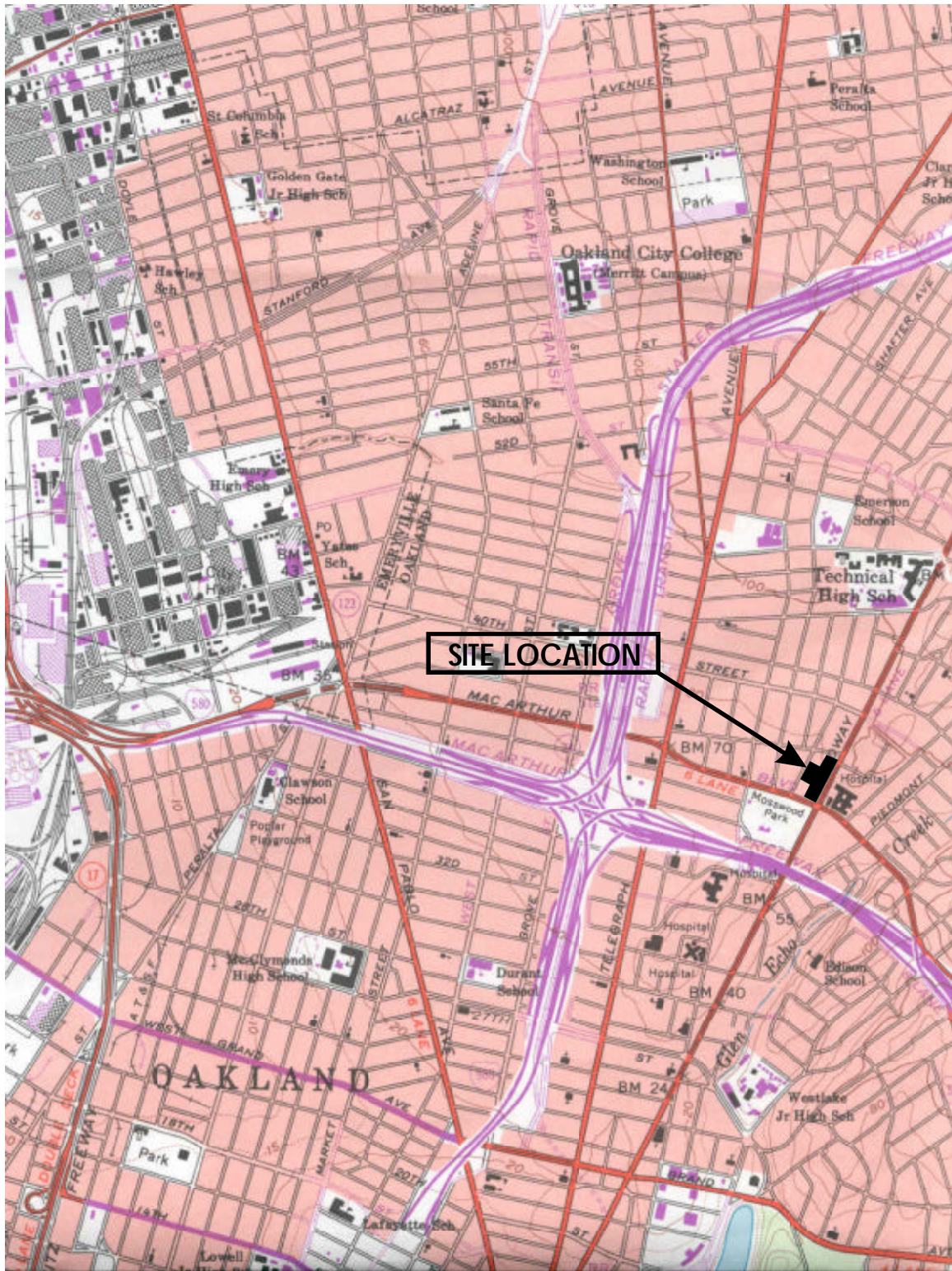
- Bold = Reported levels exceed trigger limits.
- EFF = Effluent sample
- INF = Influent sample
- J = Estimated Value
- MDL = method detection limit
- µg/l = Micrograms per liter
- ND (<1.0) = Not Detected at reporting limit or practical quantitation limit shown
- = Not analyzed

TABLE 4 - MASS REMOVAL
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway
 Oakland, California

Accumulation/Sample Date	Totalizer Reading (gallons)	Volume Discharged (gallons)	Average Flow Rate (gpm)	Total Influent Organic Concentrations (µg/l)	Est. Removal Rate (10 ⁻⁴ lbs/day)	Est. Organic Compounds Removed to Date (lbs)
10/12/07	3,064,200	0	---	39.65	---	---
10/16/07	3,224,620	160,420	27.85	16.70	55.9	0.02
11/01/07	3,769,500	544,880	23.65	16.50	46.9	0.10
12/04/07	4,800,500	1,031,000	21.70	25.40	66.2	0.32
12/31/07	5,539,452	738,952	19.01	---	58.0	0.47
01/03/08	5,615,300	75,848	17.56	26.30	55.5	0.49
02/01/08	6,824,200	1,208,900	28.95	32.70	113.7	0.82
03/03/08	8,267,700	1,443,500	32.34	15.20	59.1	1.00
03/31/08	9,075,000	807,300	20.02	52.20	125.6	1.35
05/01/08	10,131,100	1,056,100	23.66	55.00	156.4	1.84
05/19/08	10,704,250	573,150	22.11	55.00	146.1	2.10
CURRENT REPORTING PERIOD:			04/01/08-06/30/08			
Volume Extracted 2nd Quarter 2008 (gallons)			1,629,250			
Average Flow Rate (gpm):			22.89			
Average Flow Rate (mgd):			0.033			
Pounds Organic Removed, 2nd Qtr 2008 (lbs)			0.75			
CUMULATIVE						
Total Volume Extracted (gallons)			7,640,050			
Total Annual 2008 Volume Extracted (gallons)			5,164,798			
Total Pounds Removed (lbs)			2.10			
Notes:						
gpm		= Gallons per minute				
mgd		= Million gallons per day				
lbs		= Pounds				
µg/l		= Micrograms per liter				

FIGURES

Second Quarter 2008 Report – Temporary Groundwater
Dewatering System
3701-3799 Broadway
Oakland, California
PN: 05OT.50238.01
July 23, 2008

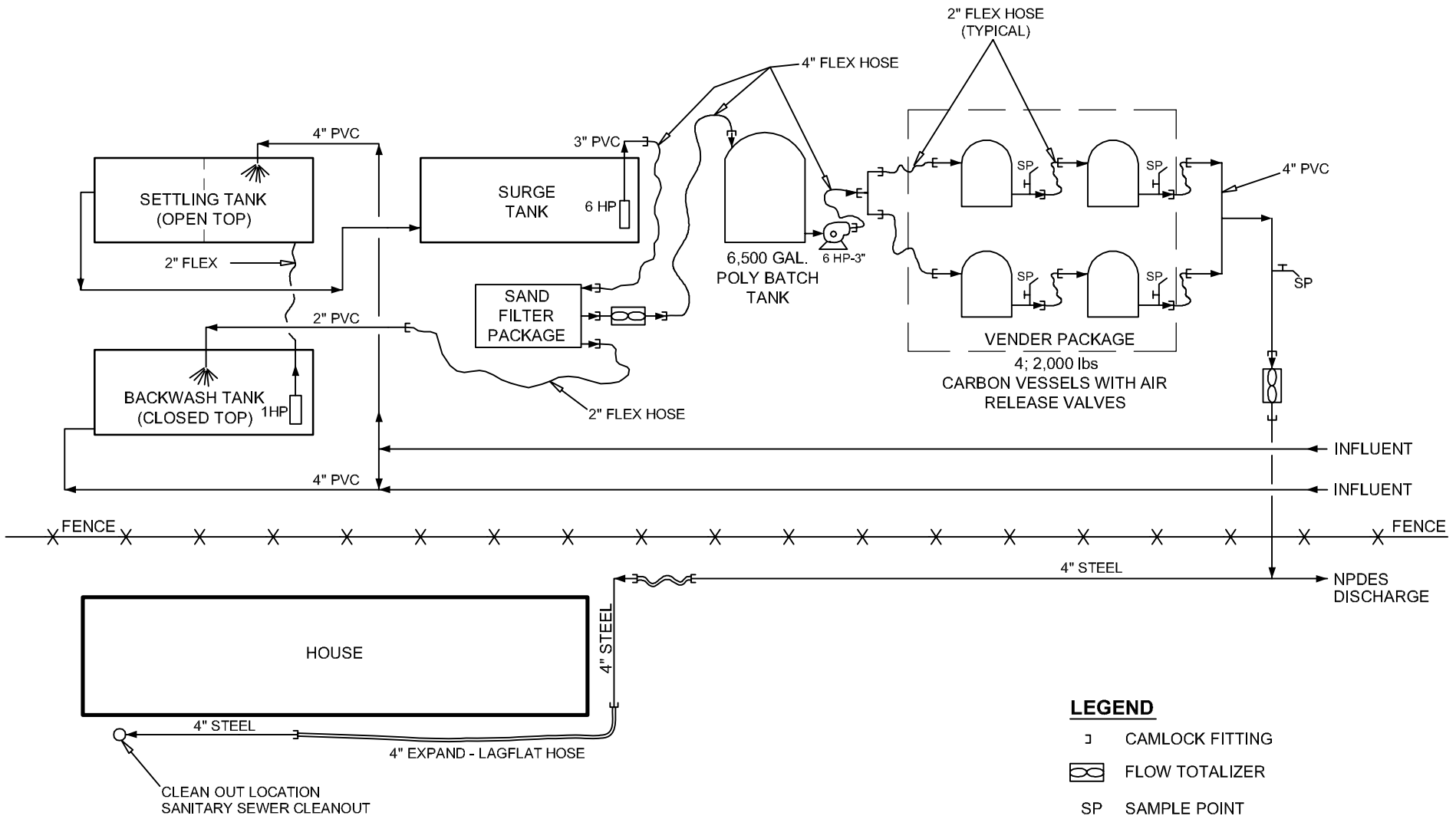



SOURCE: OAKLAND WEST QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)
CALIFORNIA - PHOTOREVISED 1980

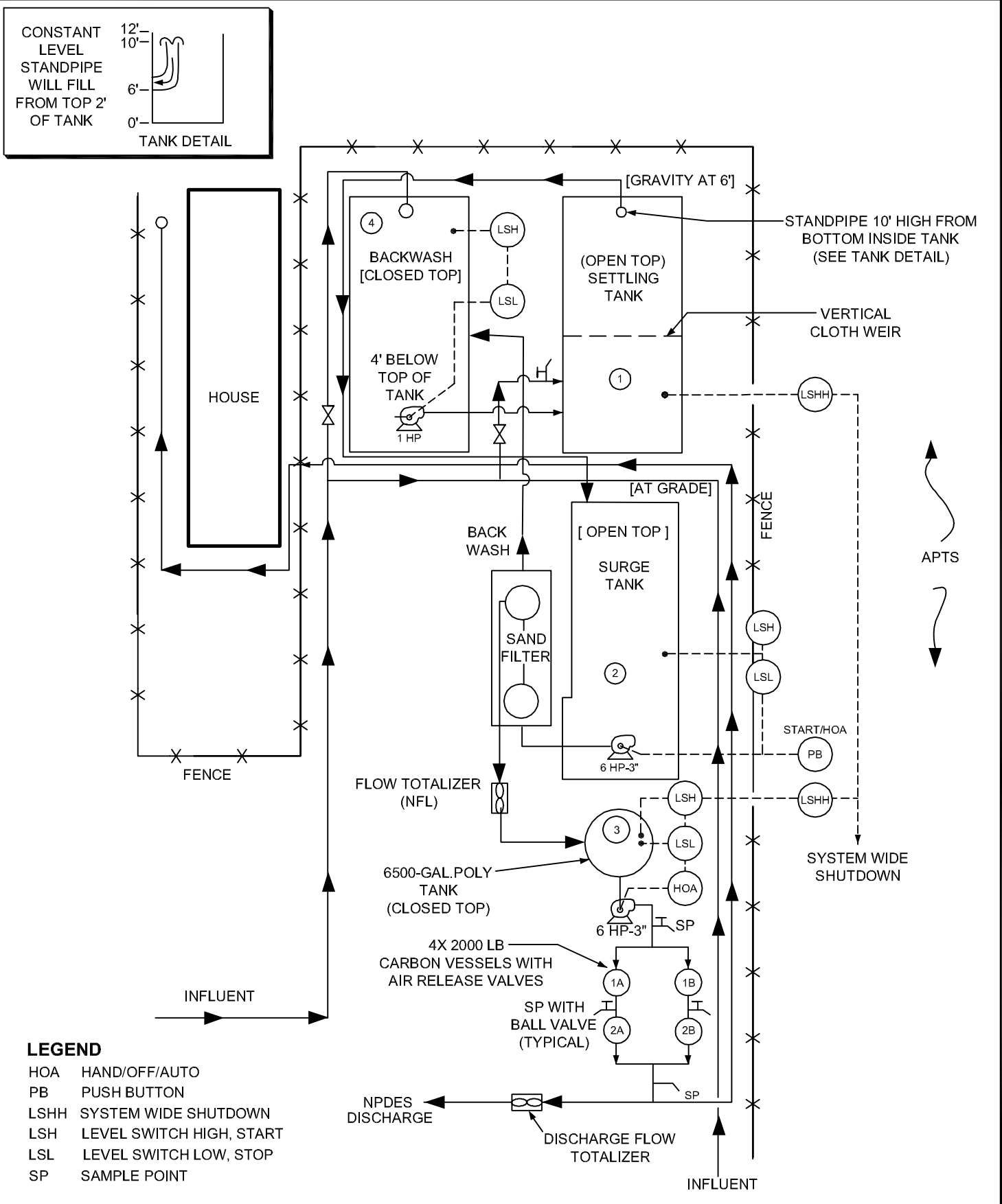



DRAWN	RRR
APPR	GH
DATE	10 DEC 2003
JOB NO.	050I.50133.00

FIGURE 1
KAISER
3701-3757 BROADWAY
OAKLAND, CALIFORNIA
SITE LOCATION MAP



 SECOR 57 Lafayette Circle, 2nd Floor Lafayette, California Phone (925) 299-9300/299-9302 FAX	FOR: KAISER FOUNDATION HEALTH PLAN, INC. OAKLAND DEWATERING PROJECT 3700 BLOCK OF BROADWAY Oakland, California		AS-BUILT SITE MAP		FIGURE: <div style="font-size: 2em; font-weight: bold; text-align: center;">2</div>
	JOB NUMBER: 05OT.50238.01.0003	DRAWN BY: RRR	CHECKED BY: MAS	APPROVED BY: MAS	DATE: 02/12/08



 <p>SECOR 57 Lafayette Circle, 2nd FLOOR Lafayette, California PHONE (925) 299-930/299-9302 FAX</p>	FOR: KAISER FOUNDATION HEALTH PLAN, INC. OAKLAND DEWATERING PROJECT 3700 BLOCK OF BROADWAY Oakland, California		P & ID		FIGURE: <h1 style="text-align: center;">3</h1>
	JOB NUMBER: 05OT.50238.01.0003	DRAWN BY: RRR	CHECKED BY: MAS	APPROVED BY: MAS	DATE: 02/12/08



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**2007 Annual Report – Temporary Groundwater
Dewatering System
3701-3799 Broadway
Oakland, California**

February 14, 2008
SECOR PN: 05OT.50238.01

Prepared For:

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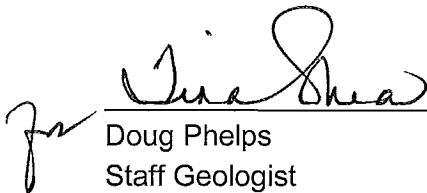
Note: Tables and Figures appear at end of report.

LIMITATIONS AND CERTIFICATIONS


This report was prepared in accordance with the scope of work outlined in SECOR's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Kaiser Permanente for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to SECOR. To the extent that this report is based on information provided to SECOR by third parties, SECOR may have made efforts to verify this third party information, but SECOR cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by SECOR.

Prepared by:

Reviewed by:



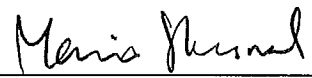
Doug Phelps
Staff Geologist



Greg D. Hoehn
Principal Geologist

All information, conclusions, and recommendations provided by SECOR in this document has been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



Mario Sternad, P.E., #69047
Associate Engineer



2/13/08

1.0 INTRODUCTION

SECOR International Incorporated (SECOR), on behalf of Kaiser Foundation Health Plan, Inc. (Kaiser Permanente), has prepared this 2007 Annual Report for the Temporary Groundwater Dewatering System (TGDS), located at 3701-3799 Broadway in Oakland, California (the Site; see Figures 1 and 2). This report is being submitted to the Regional Water Quality Control Board (RWQCB) in compliance with National Pollutant Discharge Elimination System (NPDES), Fuels General Permit No. CAG912002/Order No. R2-2006-0075 (Permit). This report covers the period starting at the time of initial startup and discharge (under the NPDES permit) on October 12, 2007 through December 31, 2007.

No effluent limit violations were reported during the reporting period. However, trigger levels for five metals were exceeded during startup sampling as described further below. Additional trigger sampling is planned for the first quarter of 2008.

2.0 SYSTEM DESCRIPTION

Operation of a TGDS at the Site began on May 7, 2007, with discharge under East Bay Municipal Utility District (EBMUD) Wastewater Special Discharge Permit #5061528-1. Discharge was changed to this NPDES permit on October 12, 2007. The TGDS consists of three 20,000-gallon Baker tanks, one 6,500-gallon Poly tank, a three-pod sand filter and four 2,000-pound liquid-phase granular activated carbon (LGAC) adsorption vessels, connected in two rows of two vessels each in series. System effluent is metered through a McCrometer propeller meter/totalizer prior to discharge to the local storm sewer system under the NPDES permit referenced above. A process and instrumentation diagram (P&ID) for the system is shown on Figure 3.

3.0 SYSTEM OPERATIONAL STATUS

During this reporting period, the TGDS operated continuously, except for minor shut downs for normal periodic maintenance and refueling. Historically, the system has been shut down about 1.3 percent of the time for routine maintenance. There was no deliberate or unanticipated bypass or upsets reported during the reporting period.

Total volume pumped during the period was approximately 2,475,252 gallons at an average flow rate of approximately 23 gallons per minute (gpm) or 0.033 million gallons per day. Normal TGDS operation and maintenance (O&M) was performed during the period following procedures outlined in an O&M Manual dated October 8, 2007. The current O&M Manual, Site-Specific Health and Safety Plan (HASP), copy of the NPDES Permit and NOI, and various field supplies are kept on-site for use by field operating personnel.

4.0 COMPLIANCE SAMPLING EVENTS

Site monitoring was completed per the NPDES Permit, Attachment E – Monitoring and Reporting Program (MRP). Startup TGDS influent and effluent samples under the NPDES permit were collected on October 11, 2007, and October 16, 2007. Startup samples were packaged and transported on ice to Curtis & Tompkins, Ltd. (C&T), a California state-certified laboratory, using chain-of-custody protocol and analyzed according to the schedule in NPDES Permit, Attachment E, Table E-3 for:

- Purgeable hydrocarbons as gasoline (TPHg), extractable petroleum hydrocarbons, as diesel (TPHd), and hydraulic fluid (TPHhf) by U.S. Environmental Protection Agency (EPA) Method 8015B.
- Benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8260B.
- Methanol and ethanol by EPA Method 8015B.
- Volatile organic compounds (VOCs; including tertiary amyl methyl ether [TAME], di-isopropyl ether [DIPE], ethyl tertiary butyl ether [ETBE], tertiary butyl alcohol [TBA], and 1,2-dibromo-3-chloropropane [DBCP]) by EPA Method 8260B.
- Ethylene dibromide (EDB) by EPA Method 504.1.
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270C.
- Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310.
- pH, temperature, and electrical conductivity.
- Metals Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Se, Th and Zn by EPA Methods 6010B, 6020, and 200.8.
- Hexavalent chromium by EPA Method 7196A.
- Low level mercury by EPA Method 1631.
- Total cyanide by EPA Method SM4500CN-E.
- Total dissolved solids (TDS) by EPA Method SM2540C.
- Turbidity by EPA Method SM2130B.

A 96-hour fish bioassay (percent survival of rainbow trout) sample was also collected on October 11, 2007, and analyzed by Block Environmental Services, Pleasant Hill, California.

Monthly compliance sampling during the period was completed on November 1 and December 4, 2007. C&T analyzed continuing compliance samples for:

- TPHg, TPHd, TPHhf, and BTEX by EPA Method 8015B/8260B.
- TDS by EPA Method SM2540C.
- Electrical conductivity and pH.

Monthly field visits included observations of site condition, such as wind direction and velocity, precipitation, ambient temperature, odors, turbidity, discoloration, suspended material, float operation, and TGDS deposits or plugging. Water temperature was also measured in the field by a SECOR technician during each field visit.

5.0 LABORATORY AND FIELD PHYSICAL/CHEMICAL ANALYSIS RESULTS

Site conditions for all field and O&M visits are summarized in Table 1. Current and historical analytical results for TPHg, TPHd, TPHhf, BTEX compounds, MTBE, PAHs, EDB, VOCs, SVOCs, turbidity, TDS, cyanide, electrical conductivity, pH, and temperature are presented in Table 2. Results of metals analysis are presented in Table 3. The total volume of extracted groundwater and contaminants removed are summarized in Table 4.

6.0 COMPLIANCE RECORD

Based on field data and laboratory analytical results summarized on Tables 1, 2, 3, and 4, the TGDS operated in compliance with NPDES Permit requirements during 2007. Annual NPDES Permit fees were paid on September 25, 2007, for the year 2007.

Concentrations of 15.0 microgram per liter ($\mu\text{g/L}$) nickel and 91.0 $\mu\text{g/L}$ zinc in the startup sample collected on October 11, 2007, exceeded trigger levels, listed in the NPDES Permit, Table 3. Trigger levels are not effluent limitations; but are levels at which additional investigation is warranted to determine whether a numeric limit for a particular constituent is necessary. Concentrations of five metals also exceeded trigger levels in the October 16, 2007, startup sample: 0.14 $\mu\text{g/L}$ (estimated) cadmium, 4.4 $\mu\text{g/L}$ copper, 3.8 $\mu\text{g/L}$ lead, 15 $\mu\text{g/L}$ nickel, and 96 $\mu\text{g/L}$ zinc. SECOR will collect three additional samples during the first quarter 2008 sampling events for each constituent exceeding the trigger level, and report results in the First Quarter 2008 report.

TABLES

2007 Annual Report – Temporary Groundwater Dewatering System

3701-3799 Broadway

Oakland, California

SECOR PN: 05OT.50238.01

February 14, 2008

TABLE 1 - NPDES PERMIT SITE CONDITIONS

Kaiser Oakland MOB Temporary Dewatering Project
3701-3799 Broadway
Oakland, California

Date	Location	Wind Direction (From)	Estimated Velocity (mph)	Previous 5-day Precipitation Total (in)	Suspended Material (Y/N)	Turbidity or discoloration (Y/N)	Odor (Y/N)	Deposits or plugging in treatment system (Y/N)	Temperature (°F)
10/11/07	EFF	None	0	1.5	N	N	N	N	65
10/16/07	EFF	E	3-4	1	N	N	N	N	68
11/01/07	EFF	SW	1-2	1	N	N	N	N	66
12/04/07	EFF	E	3-4	0	N	N	N	N	58

Notes:

mph = Miles per hour (estimated)

Y/N = Yes/No

°F = Degrees Fahrenheit

EFF = Treatment system effluent

TABLE 2 - NPDES PERMIT CHEMICAL ANALYSIS
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway
 Oakland, California

INFLUENT/EFFLUENT MONITORING TABLE

Sample ID/ US EPA Method	Sample Date	TPHg (8015B)	TPHd, TPHhf (8015B)	PAHs (8310)	EDB/VOCs (8260B)	Oxygenates (8260B)	Ethanol/ Methanol (8015B)	All other SVOCs (8270C)	Turbidity (SM2130B)	TDS (SM2540C)	Cyanide (SM4500 CN E)	EC	Temp (°F)	pH	Fish Bioassay, 96 hr (% survival, rainbow trout)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µmhos/cm)			
MDLs		3.3-14	9.5-26	0.003-0.08	0.06-0.1	0.04-2.6	0.21-0.27	0.14-3.0							
INF-001	10/11/07	23J	39J, ND(<300)	ND(<0.10-1.9) ¹	ND(<5) ¹	ND(<5-<10)	ND(<1), ND(<1)	ND(<9.4-47) ³	56.5	310	ND(<0.01)	480	65	6.7	---
EFF-001	10/11/07	39J	ND(<50), ND(<300)	ND(<0.10-1.9)	ND(<0.5) ²	ND(<5-<10)	ND(<1), ND(<1)	ND(<9.4-47)	0.35	480	ND(<0.01)	830	65	7.0	100
INF-001	10/16/07	10J	28J, ND(<300)	---	---	---	---	---	---	---	ND(<0.01)	780	68	6.8	---
EFF-001	10/16/07	16J	ND(<50), ND(<300)	---	---	---	---	---	1.4	470	ND(<0.01)	820	64	7.0	---
INF-001	11/01/07	---	---	---	---	---	---	---	---	---	---	---	70	6.7	---
EFF-001	11/01/07	16J	ND(<50), ND(<300)	---	---	---	---	---	---	500	---	700	68	7.0	---
INF-001	12/4/07	---	---	---	---	---	---	---	---	---	---	---	65	6.9	---
EFF-001	12/4/07	25J ⁴	ND(<50), ND(<300)	---	---	---	---	---	---	510	---	660	63	7.2	---

Notes:

- 1,2-DCA = 1,2-dichloroethane
- BTEX = Benzene, Toluene, Ethyl Benzene, Xylenes
- DIPE = Isopropyl ether
- EC = Electrical Conductivity
- EDB = Ethylene Dibromide
- MTBE = Methyl Tertiary Butyl Ether
- ETBE = Ethyl Tertiary Butyl Ether
- Oxygenates = TAME, DIPE, ETBE, EDB, TBA and 1,2-DCA (MTBE conc. shown below)
- PAHs = Poly Aromatic Hydrocarbons
- SVOCs = Semi-volatile Organic Compounds
- = Not analyzed
- ND = Not detected at specified laboratory reporting limits
- °F = Degrees Fahrenheit
- J = Estimated Value
- TAME = Methyl tertiary amyl ether
- TDS = Total dissolved solids
- TBA = Tertiary Butyl Alcohol
- TPHd = Total Petroleum Hydrocarbons, as diesel
- TPHg = Total Petroleum Hydrocarbons, as gasoline
- TPHhf = Total Petroleum Hydrocarbons, as hydraulic fluid
- VOCs = Volatile Organic Compounds

1. Other constituents were reported with estimated concentrations: 1.7J µg/L acetone, 0.2J µg/L carbon disulfide, 2.9J µg/L 2-butanone
2. Laboratory blank QA/QC was found to contain 0.09J µg/L chloroform, 0.04J µg/L n-butylbenzene, 0.1J µg/L naphthalene.
3. Other constituents were reported with estimated concentrations: 1.3J µg/L bis(2-Ethylhexyl)phthalate
4. Laboratory blank QA/QC was found to contain 18J µg/L TPH-g
5. Unless otherwise noted, sample holding times for all samples collected during the period were met by the laboratory

DISCHARGE LIMITATIONS TABLE

Sample ID/ US EPA Method	Sample Date	Benzene (8260B)	CCl4 (8260B)	CF (8260B)	1,1 - DCA (8260B)	1,2 - DCA (8260B)	1,1 - DCE (8260B)	Ethyl benzene (8260B)	Methylene Chloride (8260B)	PCE (8260B)	Toluene (8260B)	cis - 1,2 - DCE (8260B)	trans - 1,2 - DCE (8260B)	1,1,1 - TCA (8260B)	1,1,2 - TCA (8260B)	TCE (8260B)	VC (8260B)	Total Xylenes (8260B)	MTBE (8260B)	TPH - G, D (8015B)	EDB (8260B)	Freon 113 (8260B)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MDLs		0.1-0.3	0.06-0.1	0.03-0.2	0.04-0.05	0.05-0.09	0.07-0.09	0.03-0.1	0.1-0.2	0.01-0.2	0.06-0.1	0.04-0.1	0.06-0.1	0.03-0.1	0.04-0.09	0.04-0.1	0.08-0.1	0.07-0.3	0.03-0.05	3.3-14, 9.5-26	0.06-0.1	0.05-0.1
EFFLUENT LIMITATIONS		1	0.5	5	5	0.5	0.11	5	5	1.6	5	5	5	5	1.2	5	0.5	5	5	50	0.05	5
INF-001	10/11/07	ND(<5)	0.8J	0.6J	ND(<5)	ND(<5)	ND(<5)	ND(<5)	ND(<10)	1.7J	ND(<5)	ND(<5)	ND(<5)	ND(<5)	ND(<5)	ND(<5)	ND(<5)	ND(<5)	2.4J	23J, 39J	ND(<5)	ND(<5)
EFF-001	10/11/07	ND(<1)	ND(<0.5)	0.05J	ND(<5)	ND(<0.5)	ND(<0.5)	ND(<5)	ND(<10)	ND(<0.8)	ND(<5)	ND(<5)	ND(<5)	ND(<5)	ND(<0.6)	ND(<2.7)	ND(<0.5)	ND(<5)	0.6J	39J, ND(<50)	ND(<0.5)	ND(<5)
INF-001	10/16/07	ND(<0.5)	---	---	---	---	---	ND(<0.5)	---	---	ND(<0.5)	---	---	---	---	---	---	ND(<0.5)	1.2	10J, 28J	---	---
EFF-001	10/16/07	ND(<0.5)	---	---	---	---	---	ND(<0.5)	---	---	ND(<0.5)	---	---	---	---	---	---	ND(<0.5)	0.7	16J, ND(<50)	---	---
INF-001	11/1/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EFF-001	11/1/07	ND(<0.5)	---	---	---	---	---	ND(<0.5)	---	---	ND(<0.5)	---	---	---	---	---	---	ND(<0.5)	0.5	16J, ND(<50)	---	---
INF-001	12/4/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EFF-001	12/4/07	ND(<0.5)	---	---	---	---	---	ND(<0.5)	---	---	ND(<0.5)	---	---	---	---	---	---	ND(<0.5)	0.4J	25J ⁴ , ND(<50)	---	---

Notes:

- CCl4 = Carbon Tetrachloride
- CF = Chloroform
- 1,1-DCA = 1,1-Dichloroethane
- 1,2-DCA = 1,2-Dichloroethane
- 1,1-DCE = 1,1-Dichloroethene
- cis - 1,2-DCE = cis - 1,2-Dichloroethene
- trans - 1,2-DCE = trans - 1,2-Dichloroethene
- EDB = Ethylene Dibromide
- MTBE = Methyl Tertiary Butyl Ether
- PCE = Tetrachloroethene
- 1,1,1-TCA = 1,1,1-Trichloroethane
- 1,1,2-TCA = 1,1,2-Trichloroethane
- TCE = Trichloroethene
- Freon 113 = Trichlorotrifluoroethane or 1,1,2-Trichloro-1,2,2-Trifluoroethane
- TPH-G,D = Total Petroleum Hydrocarbons, as gasoline or as diesel
- VC = Vinyl chloride
-
- J = Estimated Value
- ND = Not detected at specified laboratory reporting limits

TABLE 3 - NPDES PERMIT METALS ANALYSIS

Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway
 Oakland, California

Date Sampled:				10/11/2007	10/11/2007	10/16/2007	10/16/2007
Sample ID:	US EPA Method	Effluent Trigger Limits	MDLs	INF-001	EFF-001	INF-001	EFF-001
Units:		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
Antimony	6010B/6020/200.8	6.0	0.072	0.098J	ND(<1.0)	ND(<1.0)	0.11J
Arsenic	6010B/6020/200.8	10	0.11	0.95J	0.66J	0.78J	ND(<1.0)
Beryllium	6010B/6020/200.8	1.0	0.053	0.084J	ND(<1.0)	ND(<1.0)	0.086J
Cadmium	6010B/6020/200.8	0.07	0.041	0.24J	ND(<1.0)	0.075J	0.14J
Total Chromium (Cr)	6010B/6020/200.8	11	0.11	9.30	3.4	7	2.8
Hexavalent Cr	7196A	11	10	20	ND(<10)	ND(<10)	ND(<10)
Copper	6010B/6020/200.8	3.1	0.18	2.4	1.6	2.2	4.4
Lead	6010B/6020/200.8	2.0	0.073	0.38J	1.6	0.35J	3.8
Mercury	1631	0.025	.0002 - .0004	.0195J	.0052J	0.0431	0.0046
Nickel	6010B/6020/200.8	8.2	0.16	16	15	17	15
Selenium	6010B/6020/200.8	5.0	0.074	1.3	0.27J	0.18J	0.26J
Silver	6010B/6020/200.8	1.9	0.027	0.032J	ND(<1.0)	ND(<1.0)	0.080J
Thallium	6010B/6020/200.8	0.1	0.019	0.099J	ND(<1.0)	ND(<1.0)	0.024J
Zinc	6010B/6020/200.8	35	1.6	8.6	91	27	96
Notes:							
Bold = Reported levels exceed trigger limits. EFF = Effluent sample INF = Influent sample J = Estimated Value MDL = method detection limit µg/l = Micrograms per liter ND (<1.0) = Not Detected at reporting limit or practical quantitation limit shown							

TABLE 4 - MASS REMOVAL
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway
 Oakland, California

Date Sampled	Totalizer Reading (gallons)	Volume	Average	Total Organic Concentration (µg/l)	Removal Rate (10 ⁻⁴ lbs/day)	Organic Compounds
		Discharged per Period (gallons)	Flow Rate (gpm)			Removed To Date (lbs)
10/12/07	3,064,200	0	---	39.65	---	---
10/16/07	3,224,620	160,420	27.85	16.70	55.9	0.02
11/01/07	3,769,500	544,880	23.65	16.50	46.9	0.10
12/04/07	4,800,500	1,031,000	21.70	25.40	66.2	0.32
12/31/07	5,539,452	738,952	19.01	---	58.0	0.47
CURRENT REPORTING PERIOD:			10/11/07-12/31/07			
Volume Extracted 4th Quarter 2007 (gallons)			2,475,252			
Average Flow Rate (gpm):			23.05			
Average Flow Rate (mgd):			0.033			
Pounds Organic Removed (lbs)			0.5			
CUMULATIVE						
Total Volume Extracted (gallons)			2,475,252			
Total Annual 2007 Volume Extracted (gallons)			2,475,252			
Total Pounds Removed (lbs)			0.5			
Notes:						
gpm = Gallons per minute						
mgd = Million gallons per day						
lbs = Pounds						
µg/l = Micrograms per liter						

FIGURES

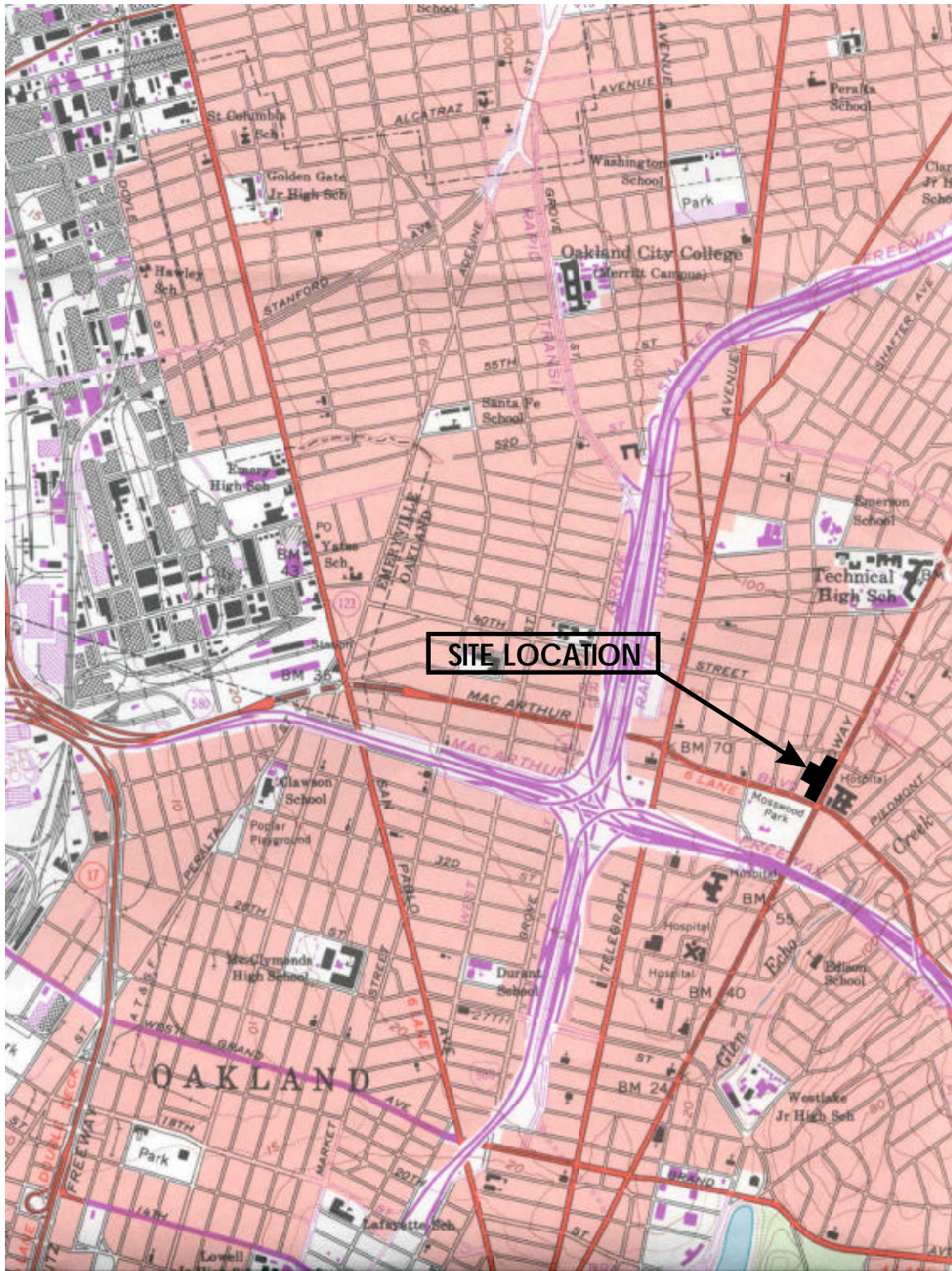
2007 Annual Report – Temporary Groundwater Dewatering System

3701-3799 Broadway

Oakland, California

SECOR PN: 05OT.50238.01

February 14, 2008

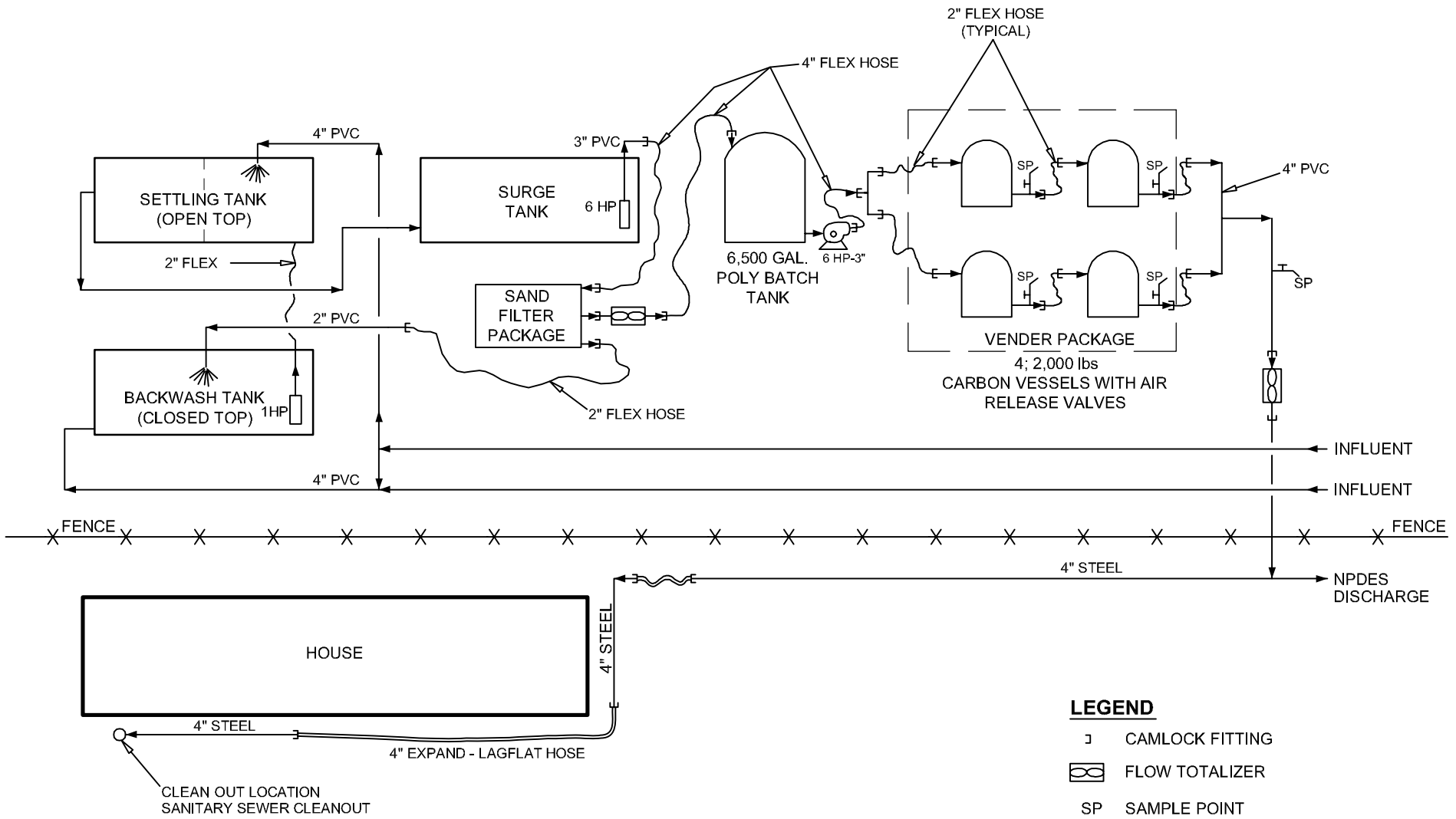



SOURCE: OAKLAND WEST QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)
CALIFORNIA - PHOTOREVISED 1980

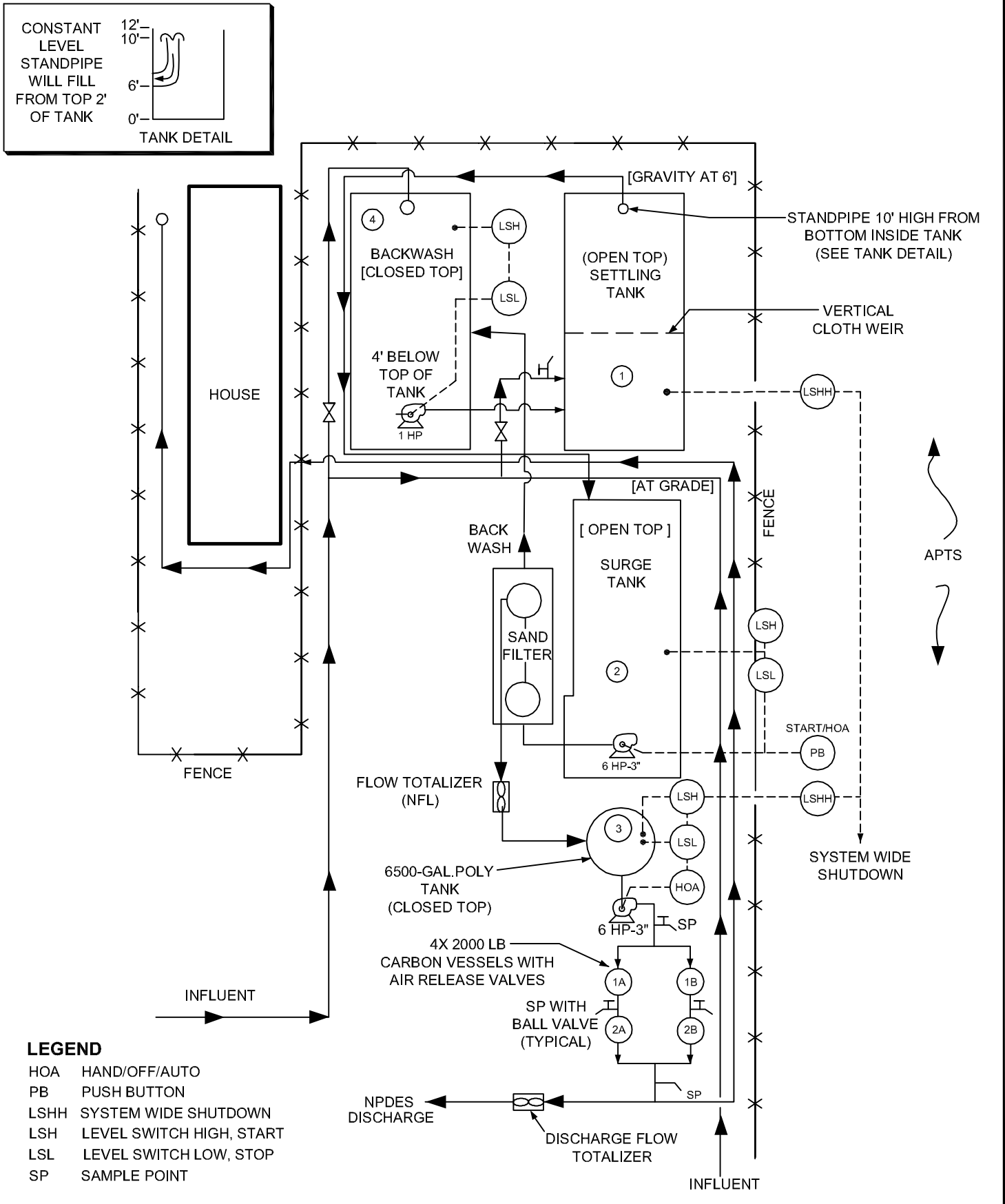



DRAWN	RRR
APPR	GH
DATE	10 DEC 2003
JOB NO.	050I.50133.00

FIGURE 1
KAISER
3701-3757 BROADWAY
OAKLAND, CALIFORNIA
SITE LOCATION MAP



 SECOR 57 Lafayette Circle, 2nd Floor Lafayette, California Phone (925) 299-9300/299-9302 FAX	FOR: KAISER FOUNDATION HEALTH PLAN, INC. OAKLAND DEWATERING PROJECT 3700 BLOCK OF BROADWAY Oakland, California		AS-BUILT SITE MAP		FIGURE: <div style="font-size: 2em; font-weight: bold; text-align: center;">2</div>
	JOB NUMBER: 05OT.50238.01.0003	DRAWN BY: RRR	CHECKED BY: MAS	APPROVED BY: MAS	DATE: 02/12/08



 <p>SECOR 57 Lafayette Circle, 2nd FLOOR Lafayette, California PHONE (925) 299-930/299-9302 FAX</p>	FOR: KAISER FOUNDATION HEALTH PLAN, INC. OAKLAND DEWATERING PROJECT 3700 BLOCK OF BROADWAY Oakland, California		P & ID		FIGURE: <p style="text-align: center; font-size: 2em;">3</p>
	JOB NUMBER: 05OT.50238.01.0003	DRAWN BY: RRR	CHECKED BY: MAS	APPROVED BY: MAS	DATE: 02/12/08



October 18, 2007

Ms. Lou Gonzales
California Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Attn: NPDES Wastewater Division
Fuel General NPDES No. CAG912002

Re: SECOR Authorization Letter for NPDES Permit Reporting
WDID: 2 079465001
Kaiser Permanente, Oakland MOB Replacement Temporary Dewatering Project
3701-3799 Broadway
Oakland, California

Dear Ms. Gonzales:

This letter authorizes Greg Hoehn, Project Manager with SECOR International Incorporated (SECOR), to act as a duly authorized representative on behalf of Kaiser Foundation Health Plan, Inc. (Kaiser Permanente). This letter gives Mr. Hoehn the authority to sign all future reports, letters and correspondence addressed to the Regional Water Quality Control Board, State Water Resources Control Board or U.S. Environmental Protection Agency regarding the National Pollutant Discharge Elimination System (NPDES) permit for the project referenced above (WDID 2 079465001).

If you should have any questions, please feel free to contact me at (510) 618-5886.

Sincerely,

Kaiser Foundation Health Plan, Inc.


Gary Bankhead
Senior Project Manager

cc: Dave Grede, Kaiser Permanente
Greg Hoehn, SECOR



SECOR
INTERNATIONAL
INCORPORATED

www.secor.com

57 Lafayette Circle, 2nd Floor
Lafayette, CA 94549
925-299-9300 TEL
925-299-9302 FAX

October 30, 2007

Ms. Lourdes Gonzales
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Re: Startup Report for the Temporary Dewatering System
3701-3799 Broadway, Oakland, California
WDID #2079465001
SECOR PN: 05OT.50238.01.0003

Dear Ms. Gonzales:

SECOR International Incorporated (SECOR), on behalf of Kaiser Foundation Health Plan, Inc. (Kaiser Permanente), is pleased to submit the enclosed NPDES Startup Report (Report) for the Temporary Dewatering System (System) located at 3701-3799 Broadway in Oakland, California (Site). There were no violations of the NPDES permit reported during the five day startup period. System operation and maintenance, including startup activities, were completed according to the current SECOR Operations and Maintenance Manual, dated October 8, 2007 and under oversight and control of Mr. Mario Sternad, P.E., California Licensed Professional Civil Engineer #C69047. Site conditions at the time of sampling are listed in Table 1. Sample startup results, method detection limits and a comparison to effluent limitations and trigger levels are shown in Tables 2 and 3.

System Operation and Startup

Initial startup sampling occurred on October 11, 2007. The system was diverted to sanitary sewer under an existing EBMUD permit until analytical results of the initial sampling were received. A 96-hour fish bioassay toxicity test was completed on the October 11, 2007 effluent sample and reported 100% survival of rainbow trout.

Upon receipt of initial results indicating the effluent water met the NPDES permit effluent limitations, RWQCB notification was performed via email and discharge under the NPDES permit began on October 12, 2007. Per the startup requirements, samples were collected on the fifth day of startup operation, October 16, 2007. Sample results were received within 72 hours of sampling and the results again indicated the discharge water met the NPDES permit effluent limitations and the system continued to discharge. Approximately 160,420 gallons water were discharged during the five day startup period, at an average flow rate of 0.043 million gallons per day. No shutdowns, system bypass, upsets or significant system repair were reported during the startup period.

Ms. Lourdes Gonzales
October 30, 2007
Page 2

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.

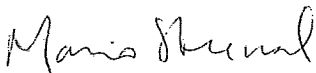
The Site is currently awaiting a Global ID number from the RWQCB and SECOR will begin uploading reports to Geotracker upon inclusion of the Site within the Geotracker database. If you require further information or have any questions concerning this report, please do not hesitate to call me at (925) 299-9300 ext 224 or Mario Sternad at ext. 222.

Sincerely,

SECOR International Incorporated



Greg Hoehn
Principal Geologist



Mario Sternad, PE
CA Licensed Professional Civil Engineer #C69047
10/30/07

Enclosure – Tables 1, 2 and 3

cc: Gary Bankhead, Kaiser Permanente
Dave Grede, Kaiser Permanente
Angeles Garcia, McCarthy

TABLE 1 - NPDES PERMIT SITE CONDITIONS DATA
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway, Oakland

Date	Location	Wind Direction	Estimated Velocity (mph)	Precipitation (in)	Suspended Material (Y/N)	Turbidity or discoloration (Y/N)	Odor (Y/N)	Deposits or plugging in treatment system (Y/N)	Temperature (oF)
10/11/07	EFFL	None	0	2	N	N	N	N	18.3
10/16/07	EFFL	East	3-4	1	N	N	N	N	20.0

Notes:

mph = Miles per hour (estimated)

Y/N = Yes or No

oF = Degrees Celsius

EFFL = Treatment system effluent

TABLE 2 - NPDES PERMIT EFFLUENT DATA
Kaiser Oakland MOB Temporary Dewatering Project
3701-3799 Broadway, Oakland

Sample ID	Date	TPH-g (8015 M) (µg/L)	TPH-d, TPH-hf (8015 M) (µg/L)	PAHs (8310) (µg/L)	EDB/VOCs (8260x) (µg/L)	All other Oxygenates (8260x) (µg/L)	MTBE (8260x) (µg/L)	Ethanol/Methanol (8260B) (µg/L)	All other SVOCs (8270C) (µg/L)	bis(2-Ethylhexyl) phthalate (8270C) (µg/L)	Hex Cr (µg/L)	Hg (1631) (µg/L)	Turbidity (µg/L)	TDS (µg/L)	Cyanide (µg/L)	EC (µmhos/cm)	Temp (oF)	pH	Fish Bioassay, 96 hr (% survival, rainbow trout) %
MDLs		3.3-14	9.5-26	0.003-0.08	0.06-0.1	0.04-2.6	0.03-0.05	0.21-0.27	0.14-3.0	1.1		0.0002-0.0004							
INF-001 EFF-001	10/11/07 10/11/07	23J 39J	39J, ND(<300) ND(<50), ND(<300)	ND(<0.10-<1.9) ND(<0.10-<1.9)	ND(<5) ND(<0.5)	ND(<5-<10) ND(<5-<10)	2.4J 0.6J	ND(<1), ND(<1) ND(<1), ND(<1)	ND(<9.4-47) ND(<9.4-47)	1.3J ND(<9.4)	20 ND(<10)	0.0195 0.0052	56.50 0.35	310.0 480	ND(<0.01) ND(<0.01)	480 830	--- 18	6.7 7.0	--- 100
INF-001 EFF-001	10/16/07 10/16/07	10J 16J	28J, ND(<300) ND(<50), ND(<300)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	ND(<10) ND(<10)	0.0431 0.0046	--- 1.4	--- 470	ND(<0.01) ND(<0.01)	780 820	--- ---	6.8 7.0	--- ---

Notes:

MTBE=	Methyl Tertiary Butyl Ether	PAHs=	Poly Aromatic Hydrocarbons
VOCs=	Volatile Organic Compounds	SVOCs=	Semi-volatile Organic Compounds
TDS=	Total dissolved solids	EC=	Electrical Conductivity
BTEX=	Benzene, Toluene, Ethyl Benzene, Xylenes	TPH-hf=	Total Petroleum Hydrocarbons, as hydraulic fluid
TPH-d=	Total Petroleum Hydrocarbons, as diesel	TPH-g=	Total Petroleum Hydrocarbons, as gasoline
J=	Estimated Value		
ND =	Not detected at specified laboratory reporting limits.		
--- =	Not analyzed		

EFFLUENT LIMITATIONS

Sample ID	Date	Benzene (µg/L)	CCl4 (µg/L)	CF (µg/L)	1,1 - DCA (µg/L)	1,2 - DCA (µg/L)	1,1 - DCE (µg/L)	Ethyl benzene (µg/L)	Methylene Chloride (µg/L)	PCE (µg/L)	Toluene (µg/L)	cis - 1,2 - DCE (µg/L)	trans - 1,2 - DCE (µg/L)	1,1,1 - TCA (µg/L)	1,1,2 - TCA (µg/L)	TCE (µg/L)	VC (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH - G, D (µg/L)	EDB (µg/L)	Freon 113 (µg/L)
MDLs		0.1-0.3	0.06-0.1	0.03-0.2	0.04-0.05	0.05-0.09	0.07-0.09	0.03-0.1	0.1-0.2	0.01-0.2	0.06-0.1	0.04-0.1	0.06-0.1	0.03-0.1	0.04-0.09	0.04-0.1	0.08-0.1	0.07-0.3	0.03-0.05	3.3-14, 9.5-26	0.06-0.1	0.05-0.1
EFFLUENT LIMITATIONS		1	0.5	5	5	0.5	0.11	5	5	1.6	5	5	5	5	1.2	5	0.5	5	5	50	0.05	5
INF-001 EFF-001	10/11/07 10/11/07	ND(<5) ND(<1)	0.8J ND(<0.5)	0.6J 0.05J	ND(<5) ND(<5)	ND(<5) ND(<0.5)	ND(<5) ND(<0.5)	ND(<5) ND(<5)	ND(<10) ND(<10)	1.7J ND(<0.8)	ND(<5) ND(<5)	ND(<5) ND(<5)	ND(<5) ND(<5)	ND(<5) ND(<5)	ND(<5) ND(<0.6)	ND(<5) ND(<2.7)	ND(<5) ND(<0.5)	ND(<5) ND(<5)	2.4J 0.6J	23J, 39J 39J, ND(<50)	ND(<5) ND(<0.5)	ND(<5) ND(<5)
INF-001 EFF-001	10/16/07 10/16/07	ND(<0.5) ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	ND(<0.5) ND(<0.5)	--- ---	--- ---	ND(<0.5) ND(<0.5)	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	ND(<0.5) ND(<0.5)	1.2 0.7	10J, 28J 16J, ND(<50)	--- ---	--- ---

Notes:

TPH-G,D=	Total Petroleum Hydrocarbons, as gasoline or as diesel	trans-1,2-DCE=	trans-1,2-Dichloroethene
CCl4=	Carbon Tetrachloride	1,1,1-TCA=	1,1,1-Trichloroethane
1,1-DCA=	1,1-Dichloroethane	1,1,2-TCA=	1,1,2-Trichloroethane
1,2-DCA=	1,2-Dichloroethane	TCE=	Trichloroethene
1,1-DCE=	1,1-Dichloroethene	Freon 113	Trichlorotrifluoroethane or 1,1,2-Trichloro-1,2,2-Trifluoroethane
cis - 1,2-DCE=	cis - 1,2-Dichloroethene	VC=	Vinyl chloride
PCE=	Tetrachloroethene	MTBE=	Methyl Tertiary Butyl Ether
EDB=	Ethylene Dibromide	CF=	Chloroform
ND=	Not detected at specified laboratory reporting limits.		
--- =	Not analyzed		
J=	Estimated Value		

TABLE 3 - NPDES PERMIT METALS DATA
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway, Oakland

Laboratory Analysis Results							
Date Sampled:				10/11/2007	10/11/2007	10/16/2007	10/16/2007
Sample ID:		Trigger Limits	MDLs	INF-001	EFF-001	INF-001	EFF-001
Units:		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
Antimony	EPA 204.2	6.0	0.072	0.098J	ND(<1.0)	ND(<1.0)	0.11J
Arsenic	EPA 206.3	10	0.11	0.95J	0.66J	0.78J	ND(<1.0)
Beryllium	GFAA or ICPMS	1.0	0.053	0.084J	ND(<1.0)	ND(<1.0)	0.086J
Cadmium	GFAA or ICPMS	0.07	0.041	0.24J	ND(<1.0)	0.075J	0.14J
Total Chromium (Cr)	SM 3500	11	0.11	9.30	3.40	7.00	2.80
Hexavalent Cr	SM 3500	11		20.00	ND(<0.10)	ND(<0.10)	ND(<0.10)
Copper	EPA 200.9	3.1	0.18	2.4	1.6	2.20	4.40
Lead	EPA 200.9	2.0	0.073	0.38J	1.60	0.35J	3.80
Mercury	EPA 1631	0.025	0.059	ND(<0.20)	ND(<0.20)	0.0431	0.0046
Nickel	EPA 249.2	8.2	0.16	16.0	15.0	17.0	15.0
Selenium	SM 3114B or C	5.0	0.074	1.3	0.27J	0.18J	0.26J
Silver	EPA 272.2	1.9	0.027	0.032J	ND(<1.0)	ND(<1.0)	0.080J
Thallium	EPA 279.2	0.1	0.019	0.099J	ND(<1.0)	---	---
Zinc	EPA 200.7	35	1.6	8.6	91.0	27.0	96.0

Notes:

- INF = Influent sample
- EFF = Effluent sample
- µg/l = Micrograms per liter
- ND (<1.0) = Not Detected at reporting limit shown
- = Not Analyzed
- J = Estimated Value
- Bold** = reported levels exceed trigger limits.