

OXLEY

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FACSIMILE TRANSMITTAL

TO

ATTENTION Scott Seery

FROM Susa Gates

DATE & TIME 2/16/96

FAX NUMBER 337-9335

NO. OF PAGES

3

Scott:

Per our discussion from the draft report. There is some indication that these wells need to be resurveyed. I'm researching it but it may mean the recent direction of flow information we have is not accurate.

Susa



PORT OF OAKLAND

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
NORTH PORT OF OAKLAND DISPOSAL SITE
OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-235

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	VOCs (ug/l) (e)	SVOCs (ug/l) (c)	TOC (ug/l)	CL (ug/l)	CN (ug/l)	pH	SC (micros/cm)	TDS (mg/l)	TKN (mg/l)	LAB
MW-1	08/04/95	108.48	5.34	98.14	ND	ND	4	1500	ND<0.01	7.2	5400	3100	43	CEC
MW-2	08/04/95	102.19	3.85	98.54	ND	ND (f)	4	8200	0.07	7.3	19000	12000	46	CEC
GC-1 (e)	08/04/95	—	—	—	ND	ND (f)	4	8200	0.07	7.4	19000	12000	46	CEC
MW-3	08/04/95	102.48	4.70	97.78	ND	ND (g)	ND<1	11000	ND<0.01	6.7	30000	21000	8.5	CEC
MW-4	08/04/95	100.41	2.15	98.26	ND	ND (h)	11	2500	ND<0.1	6.4	18200	11000	14	CEC
TB-1	08/04/95	—	—	—	ND	—	—	—	—	—	—	—	—	CEC
TB-2	08/04/95	—	—	—	ND	—	—	—	—	—	—	—	—	CEC
EB-1	08/04/95	—	—	—	ND (i)	—	—	—	—	—	—	—	—	CEC

ABBREVIATIONS:

VOCs Volatile organic compounds using EPA Method 824
 SVOCs Semivolatile organic compounds using EPA 825 and 8270B to include tentatively identified compounds
 TOC Total organic carbon using EPA Method 415.1
 CL Chloride using EPA Method 325.3
 CN Cyanide using EPA Method 335.2
 SC Specific conductance using EPA Method 220.1
 TDS Total dissolved solids using EPA Method 180.1
 TKN Total kjeldahl nitrogen using EPA Method 351.4
 ug/l Micrograms per liter
 mg/l Milligrams per liter
 micros/cm microrhos per centimeter
 — Not analyzed/applicable/measured
 ND Not detected above reported detection limit
 TB Travel blank
 EB Equipment blank
 CEC Clayton Environmental Consultants

NOTES:

- (a) Casing elevations surveyed to the nearest 0.01 foot relative to an arbitrary datum.
- (b) Groundwater elevations relative to an arbitrary datum.
- (c) Various detection limits; see laboratory report.
- (d) SVOCs not detected above reported detection limits except tentatively identified sulfur and an unknown compound at concentrations of 100 and 10 ug/l.
- (e) Blind duplicate.
- (f) SVOCs not detected above reported detection limits except tentatively identified sulfur and an unknown compound at estimated concentrations of 380 and 10 ug/l.
- (g) SVOCs not detected above reported detection limits except a tentatively identified unknown compound at an estimated concentration of 10 ug/l.
- (h) SVOCs not detected above reported detection limits except tentatively identified tetramethylbenzene, isomethylbutylbenzene, and sulfur at estimated concentrations of 20, 30, and 10 ug/l.
- (i) VOCs not detected above reported detection limits except chloroform and bromodichloromethane at concentrations of 45 and 8 ug/l.

TABLE 2- SUMMARY OF DISSOLVED METALS ANALYSIS IN GROUNDWATER
NORTH PORT OF OAKLAND DISPOSAL SITE
OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-295

CONSTITUENTS	UNITS	MDL	MW-1	MW-2	QC-1	MW-3	MW-4
DATE OF SAMPLING			08/04/95	08/04/95	08/04/95	08/04/95	08/04/95
Aluminum, Al	mg/l	0.05	ND	ND	ND	ND	ND
Antimony, Sb	mg/l	0.03	ND	ND	ND	ND	ND
Arsenic, As	mg/l	0.05	ND	ND	ND	ND	ND
Barium, Ba	mg/l	0.01	1.1	0.79	0.79	0.09	1.8
Beryllium, Be	mg/l	0.008	ND	ND	ND	ND	ND
Boron, B	mg/l	0.05	3.1	2.0	2.0	2.6	1.9
Cadmium, Cd	mg/l	0.005	ND	ND	ND	ND	ND
Calcium, Ca	mg/l	0.1	97	170	170	260	280
Chromium, total, Cr	mg/l	0.01	ND	ND	ND	ND	ND
Chromium, hexavalent, Cr	mg/l	0.01	0.03	ND	ND	ND	ND
Cobalt, Co	mg/l	0.01	ND	ND	ND	ND	ND
Copper, Cu	mg/l	0.01	ND	ND	ND	ND	ND
Iron, Fe	mg/l	0.05	0.31	0.11	0.10	ND	ND
Lead, total, Pb	mg/l	0.05	ND	ND	ND	ND	ND
Lithium, Li	mg/l	0.01	0.04	0.05	0.05	0.07	0.05
Magnesium, Mg	mg/l	0.1	120	420	420	690	390
Manganese, Mn	mg/l	0.01	0.20	0.29	0.28	2.7	1.2
Mercury, Hg	mg/l	0.0005	ND	ND	ND	ND	ND
Molybdenum, Mo	mg/l	0.01	ND	ND	ND	ND	ND
Nickel, Ni	mg/l	0.02	ND	ND	ND	ND	ND
Potassium, K	mg/l	1	140	160	160	210	190
Selenium, Se	mg/l	0.05	ND	ND	ND	ND	ND
Silver, Ag	mg/l	0.01	ND	ND	ND	ND	ND
Sodium, Na	mg/l	1	700	3200	3100	5700	3000
Strontium, Sr	mg/l	0.05	2.0	2.9	2.8	4.1	3.1
Thallium, Tl	mg/l	0.05	ND	ND	ND	ND	ND
Tin, Sn	mg/l	0.05	ND	ND	ND	ND	ND
Titanium, Ti	mg/l	0.01	ND	ND	ND	ND	ND
Vanadium, V	mg/l	0.01	ND	ND	ND	ND	ND
Zinc, Zn	mg/l	0.01	ND	ND	ND	ND	ND
LAB			CEC	CEC	CEC	CEC	CEC

Note: Metals analysis performed using EPA Method 200.7, except hexavalent chromium using EPA Method 7196A

ABBREVIATIONS:

- mg/l Milligrams per liter
- MDL Method detection limit
- ND Not detected above reported detection limit
- CEC Clayton Environmental Consultants

Nat'l Airmotive Corp.



- storm water discharge point
from NAC test site to unlined
storm water culvert at west
side of site



- "sheen" upon water in unlined
storm water culvert



- View from levee towards pump house,
atop discharge pipe from unlined
storm water culvert

2/16/96

GATE

EARHART ROAD

GATE

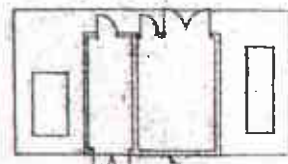
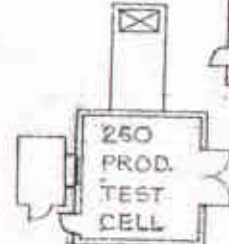
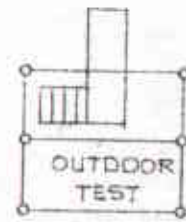
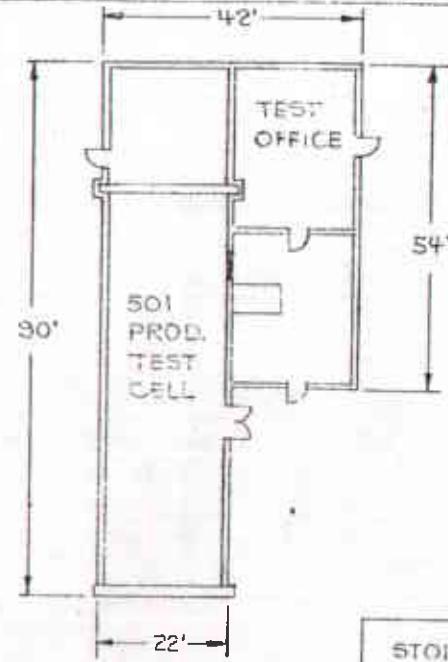
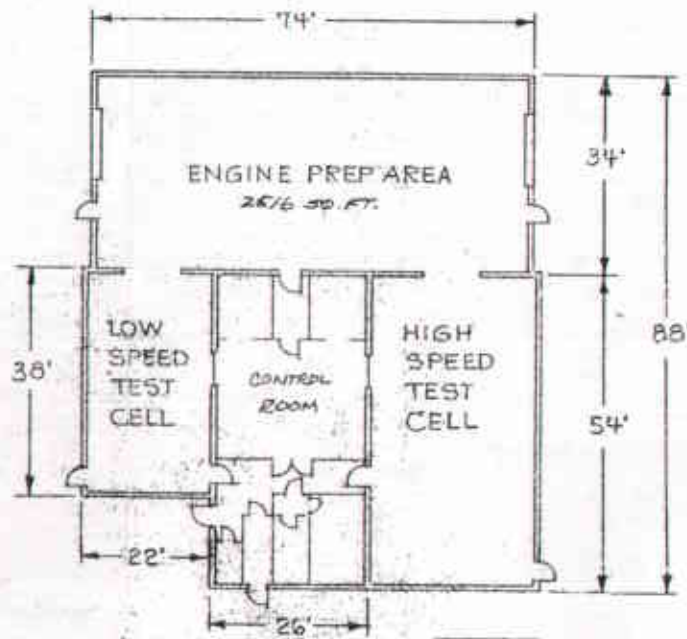
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LP GAS
STORAGE TANK

ENGINE PREP AREA
2816 SQ. FT.

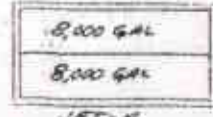
TEST
OFFICE

JET A15 TANK
10,500 GAL.

REF
BAY
B17
PROD.
TEST
CELL



LP GAS
FACILITY



JET-A



COOLING
TOWER



STOR.
SHED

STORAGE
SHED

OIL SEPARATOR



prod. outflow 11 ft.

Nat'l Air Motive Corp. ●



- view of tidal marsh east of NAC test site into which collected storm water from NE corner of Oakland Airport is pumped from collection pond, through pump house and conveyance pipeline. Tidal marsh is in direct hydraulic communication with San Leandro Bay.



- view approximately towards NW from atop Earhart Road in direction of NAC test site. Note storm water collection pond, pump house, and water conveyance pipeline. San Leandro Bay is in middle distance in right photo.



Rolls-Royce

Dave Golberg
Environmental Manager

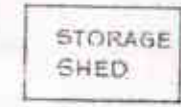
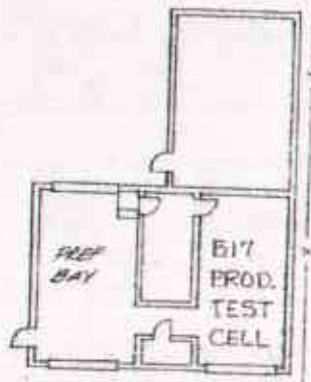
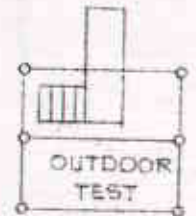
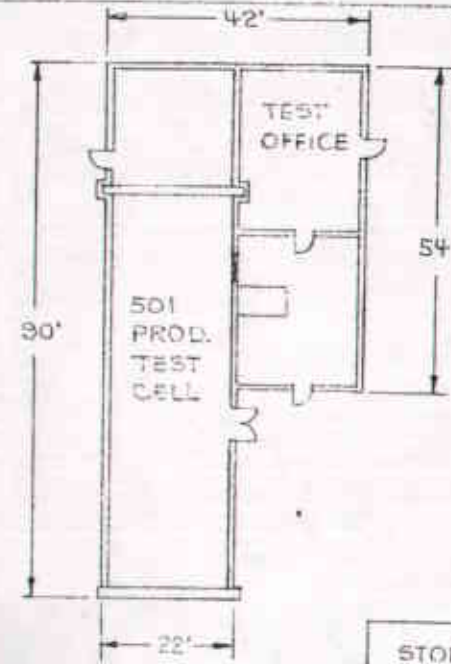
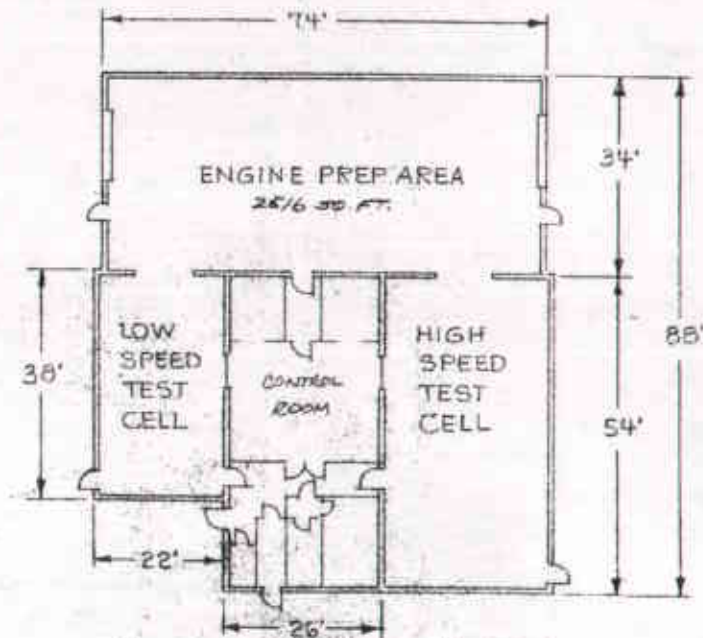
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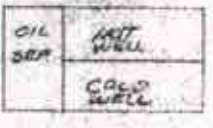
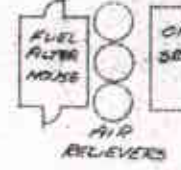
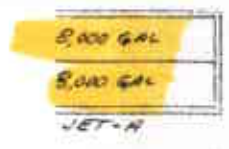
Hot Air turbine Corp

EARHART ROAD

GATE



OIL SEPARATOR



COOLING TOWER

