Previous

NOTEBOOK NO. 180
ISSUED TO Alameda DGS
ON _____ 20____
DEPARTMENT _____
RETURNED _____ 20____

SCIENTIFIC NOTEBOOK COMPANY
2831 LAWRENCE AVENUE
STEVENSVILLE, MICHIGAN 49127
(800) 537-3028 - http://www.snco.com

TLE Alameda DGS

Project No.

Book No. 180



Page No.

Gary Thomas/Mark Cruickshank
Uribe & Associates
5/24/01
Page 1 of 1

0700 Arrive at U&A office, will get supplies ready for today's work and then depart for site
0740 Arrive at site field office, looking around, getting a few more supplies
0810 Depart to mark sampling locations
0830 At IR Site 6 (All Site 6 locations are on concrete)
0945 Marking of locations in vicinity of 56-1 and 46-1 is confusing, will talk to Bill & Kyle before marking associated vacuum & geoprobe (direct-push) locations
1010 Arrive at Site 14; had to get a pass because it's in the area they're filming "Matrix"
1230 Arrive back at site office, still need to mark more locations at Site 14, GDT departs site. Mark is going to office to pick-up Kyle C.
1300 Mark arrives back at U&A; he will not be going back with Kyle today

Gary Thomas 5/24/01

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Project No.
Book No. 180 TITLE Alameda DGS

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Gary Thomas/Mark Cruickshank
Uribe & Associates
5/25/07
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0700 Mark arrives at U&A, prepares for today's work
0715 GDT arrives at ~~at~~ U&A
0745 Depart for site
0805 Arrive at site office, getting a few supplies
0825 Arrive at well M05-04 to place passive diffusion samplers (PDS) into well
WL= 6.24 ft btoc
0850 PDS have been placed in well M05-04, now returning to office to get new caps, well cap on well was highly corroded
- a string of 5 bags was placed in well
0901 Now going to well M05-07
0910 At well M05-07
WL= 7.19 ft btoc
- top of casing is 0.5 ft bgs, so top 0.5 to 1 ft of upper bag may not be below water
0935 PDS bags have been placed in well M05-07
0940 Arrive at well MW360-1
WL=3.97 ft btoc
0955 PDS bags have been placed in well MW360-1
0957 At well D04-03
WL=4.73ft btoc
1015 PDS bags are not going down well very far, will pull them out and get a TD
TD= 15 ft btoc
- TD, according to FSP is 94 ft btoc
- well drop PDS bags to bottom of well and then let Bill W. and Kyle what happened
1030 At well MW360-4
WL=3.81 ft btoc
1045 PDS bags have been placed in well MW360-4
1050 Arrive at well D04-02
WL=6.27 ft btoc
TD= 97 ft btoc
- adjacent well needs well cover (9 inch Diameter)
1110 PDS bags have been placed in well D04-02

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Gary Thomas/Mark Cornickson
5/25/01
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1130 After ~~return~~ completing work at D04-02, we returned to well D04-03 to see if we could find another well in the area and did find a well that was covered by weeds. We then realized that the well that we placed the PDS bags into initially was not D04-03, so we pulled the bags out of this well and will have to order more bags to place into the new well (D04-03) that we found
now going offsite to find a phone
1230 At well MW360-3; needs special wrench so we can't open it right now
At well MW360-2; needs " " " " "
1235 At well M04-05
WL = 4.72 ft btoc
1250 PDS bags have been placed in well M04-05
now going back to U&A to get a special allen wrench to open-up well MW360-2 and MW360-3
1340 Arrive at well MW360-2
WL = 4.50 ft btoc
1400 PDS bags have been placed in well MW360-2
1403 Arrive at well MW360-3
WL = 4.15 ft btoc
TD = 15 ft btoc
1410 PDS Bags have now been placed in well MW360-3
1415 At field office to clean out freezer, inventory supplies
1500 Finished work at Alameda Point, now returning to U&A
1515 Arrive back at U&A

Gary Thomas (5/25/01)

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LAURA GENIP
KIRK MARTIN
MARK CRUICKSHANK
W & A 5/29/01
PAGE OF

10:30 - ARRIVE ON SITE, PICK UP MATERIALS FOR MARKING SAMPLE LOCATIONS. LAURA BEGIN INVENTORY OF FIELD SUPPLIES.

1315 - FINISH MARKING BORINGS @ SITE 14, EXCEPT FOR VACUUM EX. AND ASSOCIATED DIRECT PUSH BORINGS. DRIVE BACK TO COMMAND CENTER & BREAK FOR LUNCH.
S14-DGS-HA05, S14-DGS-SS10, S14-DGS-SS09 ARE LOCATED ON ASPHALT

1430 - ARRIVE @ GATE FOR MATRIX SET, GOT ~~1430~~ EXTRA BADGE FOR LAURA, TOLD TO RETURN BADGES @ END OF DAY.

1435 - BEGIN MARKING LOCATION @ SITE 15.

1650 - COMPLETE MARKING HAND AUGER LOCATIONS FOR SITE 15, TWO LOCATIONS MOVED AWAY FROM SHORELINE DUE TO STANDING $H_2O$:
S15-DGS-HA05 & S15-DGS-HA24. * NOTE: ALL LOCATIONS OUTSIDE FENCE THAT SURROUNDS BASE. GATE USED FOR ACCESS IS CLOSEST TO LOCATION S15-DGS-HA15, GATE WAS UNLOCKED AND CLOSED W/ ELECTRICAL WIRE.

1715 - PACK UP LEAVE SITE

5/29/01

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7:45- ARRIVE @ ALAMEDA POINT & PICK UP SUPPLIES FROM COMMAND CENTER. LAURA GENIN KIRK MARTIN MARK CRUICKSHANK URIBE & ASSOCIATES 5/30/01

810- BEGIN MARKING BORING LOCATIONS @ SITE 23 @ OU2A, SITE 9 (OU2A), SITE 13 (OU2A), SITE 22 (OU2A).

1045- BREAK FOR WATER & SHADE, MARKED BORINGS S09-DGS-SG02, SG03, SG-01 INSIDE BUILDING 410 DUE TO BOATS LOCATED OUTSIDE BUILDINGS. ~~ALL~~ BORINGS LOCATED ON CONCRETE - S09-DGS-DP05, DP04, SG02, SG03, SG01, S04-1-4. ALL OTHER BORINGS LOCATED ON ASPHALT.

1105- BEGIN LOCATING BORINGS SITE 22.

1155 Gary & Lora arrive at well D04-03 to place PDS bags into well WL=6.53 ft btoc

1225 Bags placed in well D04-03, will mark locations next

1645- FINISH MARKING SAMPLE LOCATION @ OU2A. ALL BORINGS AND M.WELLS IDENTIFIED EXCEPT MW0R-2 (COULDN'T FIND), B04-09 (IN BUILDING 360) AND VE BORINGS. EARLIER IN DAY RECEIVED PERMISSION TO ENTER BUILDING 410 FROM TENNANT CARL NELSON. ALSO OBTAINED PERMISSION AND ACCESS INTO SITE 19 FROM FOSS ENVIRONMENTAL. UPON EXIT, ACCIDENTALLY LOCKED LOCK W/OUT CLOSING GATE. FOSS ENVIRONMENTAL INFORMED OF UNLOCKED STATUS.

MR
5/30/01

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730- ARRIVE ONSITE, MEET W/ DOUG DULANY TO OBTAIN KEYS TO BUILDING 360 & 5.
800- LOCATE BORING IN BUILDING 360 (B04-09). BORING LOCATED ON METAL COVERING. WILL NEED TO BE RELOCATED.
1200- FINISH LOCATING LOCATIONS W/IN BUILDING #5 CONCRETE FLOOR APPROX. 1" THICK. BORINGS B05PS-06, S04-DG5-DP18, S05-DG1-DG19 B05PS-09, B05PS-02 ON SOIL OVERLAIN W/ WOOD DECK.
LEAVE FOR LUNCH
1300- BEGIN MARKING LOCATIONS OUTSIDE.
1445- TALK TO DOUG DULANY ABOUT ACCESS TO BUILDING 400 AND SITE. FILM CREW CURRENTLY WORKING ONSITE. AGREE TO MEET AT 1500 AND BE ESCORTED ON SITE BY DOUG AND FILM PERSONEL.
1630- LEAVE SITE, ALL BORINGS LOCATED ON CONCRETE, EXCEPT BERC-S05-04 WHICH IS ON ASPHALT. BORINGS S05-DG5-DP26, DP27 LOCATED ON 1.5' CONCRETE PAD. MONITORING WELLS MO5-06 & MO5-03 COULD NOT BE FOUND. NO VACUUM EX ON ASSOCIATED BOREHOLES LOCATED.

MARK CRUICKSHANK
KIRK MARTIN
URIBE & ASSOCIATES
5/31/01

MC
5/31/01

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MARK CRUICKSHANK
GREGORIO RAMIREZ
6/5/01

815- ARRIVE ONSITE,
OBTAIN KEY TO BUILDING 360 FROM DOUG DULONG.
830- BEGIN MARKING BORING LOCATIONS ON OU-2B.
1230- LUNCH BREAK S03-DGS-SG11, SG12 ON CONCRETE PAD, CAN'T LOCATE 37-MJ-MW3, CAN'T GAIN ACCESS TO BUILDING 372 AND ATTACHMENT TO BUILDING 360
130- CONTINUE TO LOCATE BORINGS.
315- SEE DOUG DULONG TO GAIN ACCESS TO 372 AND ADDITION TO 360, ALAMEDA CITY REP. OPENS BUILDINGS.
400- BORING S04-DGS- DP15 DIFFICULT ACCESS, WILL NEED TO RELOCATE
430- CLEAN SITE.

6/5/01

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MARK CRUICKSHANK
GREGORIO RAMIREZ
6/6/01

900 - ARRIVE ON SITE, PICK UP FIELD GEAR
915 - BEGIN MARKING SAMPLE LOCATION @ OU2B.
1020 - LEON PAULOS - 510 - 864 - 8211 FROM NAVIGATOR INC. IS THE CONTACT FOR ACCESS TO ~~SITE~~ BUILDING 14. ~~BORING~~ HAND AUGER LOCATIONS S11-DGS-HA02, HA03, BUTIA LOCATIONS ON SAND.
1200 - ALL LOCATIONS MARKED (EXCEPT LOCATION UNLABELED OUTSIDE BUILDING 14) EXCEPT WHERE PREVIOUSLY NOTED, PHONE DOUG DULONG ABOUT ACCESS TO OU1 - 15, 14, 16, TOLD TO MEET @ FILM SECURITY GATE @ 2:00 PM.
1210 - GOTO BUILDING FILE TO SCRATCH OUT LOCATIONS THAT WERE MARKED IN ERROR (OR MARK THEM WERE LABELED AS "PREVIOUS BORINGS").
OBTAINED KEY FROM DOUG DULONG'S OFFICE W/ HIS PERMISSION.
1230 - LUNCH.
1400 - TRY AND LOCATE MW BEHIND BERM @ OU1 - SITE 14. METAL DETECTOR WOULDN'T WORK!! COULDN'T LOCATE WELL W/ SHOVELS DUE TO HIGH, THICK, BRUSH.
1500 - LEAVE SITE

MR
6/6/01

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700 - ARRIVE, BEGIN LOCATING, CLEARING UTILITIES @ OUI-6 AND OU2C-5

MARK CRUICKSHANK > USA
KIRK MARTIN
FRED BOES
KEITH WILLIAMS > CALIFORNIA UTILITIES

715 - TAILGATE HEALTH & SAFETY 6/11/01

- ROUTE TO HOSPITAL
- SLIPS TRIPS & FALLS
- TRAFFIC SAFETY - VESTS & CONES
- DISCUSS HASP (BADGEWIDE FROM TEAM I)

*
*
*
*

1130 - BREAK FOR LUNCH
1200 - START LOCATING INSIDE BUILDING 5
1500 - S05-DG5-DP21 - MOVED 4' NORTH, STEP OUT DIRECTIONS MARKED IN WHITE, UTILITIES MARK IN PINK, S05-DG5-DP22 CLEARED & STEP OUT MARKED, S05-DG5-DP23 CLEARED & STEP OUT MARKED, S05-DG5-DP04 MOVED 2' WEST, S05-DG5-SG13-15 MARKED, S05-DG5-DP14 MOVED 2' WEST, S05-DG5-DP12 MOVED 4' SOUTH.
1515 - CLEAR S05-DG5-DP25-27, & STEP OUT DIRECTION FOR 25
1650 - MOVED S04-DG5-DP17 3' EAST, S04-DG5-DP12 1' SOUTH 3' WEST, FLOOR IN BUILDING 360 IS A FALSE FLOOR. PREVIOUS BORINGS MOVED BY CRAWLING UNDER FLOOR SPACE.
1730 - LOCATED FOR UTILITIES S04-DG5-DP10 - MOVE 2' WEST. LOCATE UTILITIES FOR ~~S04-DG5-DP12~~ & S04-DG5-DP16.
1740 - PACK UP, MOVE MATERIALS TO COMMAND CENTER.

* PLEASE CHECK S04-DG5-DP18 *

6/11/01

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MARK CRUICKSHANK - U&A
FRED BOES - CALIFORNIA
KEITH WILLIAMS - UTILITIES
6/12/01

700- ARRIVE ONSITE
715- MORE PORTABLE WATER CLOSET.
730- MORNING TAILGATE MEETING W/ UTILITY LOCATOR. DISCUSSED ROUTE TO HOSPITAL, SLIP TRIPS & FALLS AND TRAFFIC CONCERNS
* MC * (11.30 am)
* [illegible]

920- S04-DGS-DP20 - CLEARED, MOVED N 7' WEST, ORIGINAL BORING LOCATED ON SUMP, COVERED W/ STEEL GRATE. MOVED FOR EASE OF CONCRETE CORING / BORING.
S04-DGS-DP13 MOVED N 5.0' N DUE TO UTILITIES.
S04-DGS-DP06 MOVED N 2' S DUE TO UTILITIES.
1050- BORING S04-DGS-DP18 ~~MOVED 3' WEST~~ CLEARED
BORING S04-DGS-DP11 MOVED 2' SOUTH
BORINGS S04-DGS-SG04-06 MOVED 1' SOUTH, 2' EAST
* ALL BORINGS W/IN BUILDING 360 MARKED & CLEARED *
100- S04-DGS-DP14 - CLEARED
S04-DGS-DP07 MOVE 2' WEST
S04-DGS-DP05
1200- LUNCH
1230- RESUME LOCATING
1305- S04-DGS-DP09 - CLEARED, MOVE N 2' SOUTH
S04-DGS-DP11 - CLEARED, MOVE N 2' NORTH
S04-DGS-DP10, DP12, DP13 CLEARED
1320- S03-DGS-SG10-SG12
S03-DGS-DP06
S03-DGS-DP07
S03-DGS-DP08
S03-DGS-DP04
S03-DGS-DP05
ALL CLEARED
1355- S05-DGS-DP08, ~~DP10~~, SG10, SG09, SG08, DP10
" " DP07 CLEARED 3' EAST
S05-DGS-DP09 - 1' EAST, CLEARED.
S05-DGS-DP05 - 1' WEST, CLEARED

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1435- S05-DGS-DP01, MOVED 2' WEST & CLEARED
S05-DGS-SG01, MOVED 2' WEST & CLEARED
" " SG03, MOVED 1' WEST & CLEARED
" " SG02, MOVED 1' WEST & CLEARED
S05-DGS-DP02-CLEARED
S05-DGS-SG05, & SG04, SG06 CLEARED
S05-DGS-DP03-CLEARED
1445- S03-DGS-SG01-MOVED 2' WEST & CLEARED
S03-DGS-SG02, SG03-CLEARED
S03-DGS-DP02-STEPOUT & CLEARED
S03-DGS-DP01-STEP OUT & CLEARED
S03-DGS-DP03-STEPOUT & CLEARED
1450- S03-DGS-SG04, SG05, SG06-CLEARED
1455- S05-DGS-SG11, SG12, SG13-CLEARED
1525- S04-DGS-SG01, SG03 CLEARED
S04-DGS-SG02 MOVED 2' SOUTH & CLEARED
1605- S04-DGS-SG07 MOVED 6' SOUTH & CLEARED
S04-DGS-SG09 " 10' SOUTH " "
S04-DGS-SG08 " 10' SOUTH
S04-DGS-DP03 " 15' NORTH " "
1620- S04-DGS-DP04 " 3' SOUTH & CLEARED
1645- S04-DGS-DP09 CLEARED & STEPOUT
1655- S04-DGS-SG16, SG17, SG18 CLEARED
1700- S21-DGS-DP05, DP06-CLEARED
1715- S04-DGS-SG14, SG15-CLEARED, S04-DGS-SG13 MOVED 2' EAST & CLEARED
1720- S24-DGS-SG01, SG02, SG03-CLEARED
S24-DGS-DP08 CLEARED
1730- PACK UP GEAR, LEAVE SITE

MC
6/12/01

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MARK CRUCKSHANK - U.S.A.
FRED BOES - CU SURVEYS
KEITH WILLIAMS "
6/13/01

700- ARRIVE ONSITE - TALK TO DOUG DULANY ABOUT ACCESS TO MOVIE SETS.
720- BEGIN UTILITY CLEARING
740- S04-DGS- SG07, SG08, SG09
750- TAILGATE HEALTH & SAFETY MEETING
* MC
* (11:30)
*
950- S21-DGS- DP07, DP01 - CLEARED
S21-DGS-DP02 MOVED 3' NORTH & CLEARED
S21-DGS- SG04, SG05, SG06 MOVED 2' SOUTH & CLEARED
S11-DGS- HAD1- CLEARED
1010- S11- DGS- DP01- CLEARED
1020- S21- DGS- DP04, DP03- CLEARED.
1200- S16-DGS- DP05- CLEARED
S16-DGS- DP04- MOVE 2' WEST & CLEARED
S16-DGS- DP09. CLEARED
S16-DGS-DP08, SG01, SG02, SG03, DP03- CLEARED
1340- S14-DGS- DP03, SG07, SG08, SG09- CLEARED.
1350- S14- DGS- DP01, SG01, SG02, SG03 - CLEARED, SG02 MOVED 2' SOUTH.
1405- S14- DGS-DP04, SG10, SG11, SG12- CLEARED.
1505- LOCATE & UTILITY CLEAR S14-DGS- VE01, DP09
1510- CLEAR S14- DGS- DP07, DP06, DP05
1515- S14- SG7- VE02, DP10 - UNABLE TO GAIN ACCESS TO FENCED AREA.
1545- CLEAR BORING S10-DGS- DP01
1605- LOCATE & CLEAR S05- DGS- DP30, VE02
1630- LOCATE & CLEAR S05-DGS- DP29, VE01
1645. LOCATE & CLEAR S21- DGS- DP09, VE01
1650- LOCATE & CLEAR S21- DGS- DP10, VE02
1800- CLEAR S04-DGS- DP15 + ALT. LOCATION ~ 5' NEST.
1810- CLEAR S04-DGS -VE02 & DP23 (LOCATE FIRST)
1820- LOCATE & CLEAR S13-DGS- DP02, VE02.
1830- LOCATE & CLEAR S13- DGS -VE01, DP01
1845- LOCATE & CLEAR S23- DGS - VE01, DP02.
1855- LOCATE & CLEAR S09- DGS- VE01, DP09, DP09 MOVE NE OF VE BORING 9.0'
1930- LOCATE AND CLEAR S16-DGS- VE02, DP07

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PAUL MACMAHON CUS - 510-719-8663

135 - CAN'T LOCATE S16-DGS-VE01 DP06 *

1945 - LOCATE & CLEAR S06-DGS-VE02, DP10

1955 - LOCATE & CLEAR S06-DGS-VE01; DP09

PACK UP FOR DAY

2010 - LEAVE SITE

6/13/01

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From Page No. 6/14/01

Kirk S. Martin - U+A
Paul McMahon - CU Survey

Arrive on site @ 9 AM
Met w/ Paul ~~[illegible]~~ McMahon

Tailgate safety meeting @ 9:30 AM

Kirk S. Martin
Paul McMahon

9:30 Begin clearing boring points.
S16-DGS-DP01 ✓ 9:45 AM - cleared

30 S16-DGS-SG04 - Moved ~2' East - cleared
S16-DGS-SG05 cleared
S16-DGS-SG06 cleared

Paul had to change his paint from Pink to Purple because he ran out of pink.

10:35 S16-DGS-DP02 - Moved 1' East - Cleared
10:45 S04-DGS-DP02 - Moved 5' West - cleared
11:35 S13-DGS-SG01
S13-DGS-SG02 cleared
S13-DGS-SG03
11:50 S23-DGS-DP01 - Cleared
S23-DGS-SG01 - moved 3' East - cleared
2:15 S23-DGS-SG02 - Cleared 3' East if needed
S23-DGS-SG03 - moved 3' east - cleared
~~1:35~~ S09-DGS-DP01 - Moved ~4' east/2' North. Step-out SE direction goes
13:35 inside BIDG. 410 and into a shower area. There are workers inside w/a large scaffolding. Step-out NW crossed an electrical box area so I cleared the area beyond the electrical box.

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14:20 S09 - DGS - DP05 - Clear
S09 - DGS - S601
S602
S603 } All 3 moved ~3' West Cleared
S603 Also moved 1' North
S09 - DGS - DP04 - Moved 3' West - Cleared
14:35 S09 - DGS - DP02 moved 3' west - Step-out crosses electric + WL trench
14:55 S09 - DGS - DP03 - Cleared

15:20 S22 - DGS - S601
S602
S603 } Cleared

16:15 S04 - DGS - VR01
DP22 } Cleared
Pack up for DAY

16:30 Left Site

6/14/01

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Kirk S. Martin
6/15/01

700 Arrived on site to meet w/ Rain for Rent Crew so they can drop off 4000 Gal. Water tank.
0720 Rain for Rent crew arrived
Dropped off water tank and decon pad (Berm).
0940 Met with UTI contractor - ALEX
He needed maps of proposed sampling locations. I told him I would marked copies and give them to him on Monday.
1030 Left site for office

6/15/01

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From Page No.

Rick Ehrman
Kristin Lehman
6/27/01

0900 Arrived on site; loaded equipment

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7/12/01
OW 1/2 - DGS / ALAMEDA
STORM DRAIN SAMPLING
MIKE B. / GREGORIO R. / BILL W.
OVERCAST / 62°

0700 ARRIVE @ FIELD OFFICE / MOBILIZE / LOAD TRUCKS / CONFIRMED SAFE ENTRY / MEETING
1030 HEAD-OUT TO S14 / BEGIN LOOKING FOR BURRIED STORM DRAIN INLET
COULD NOT FIND
1120 COLLECT SAMPLE 385-S14-056 (FIELD ID. S14-DGS(OF-W) GWI
1150 " " " " -057 ( " " S14-DGS(OF-W) SED
* ESTIMATED FLOW RATE TO BE APPROX. 2 LITERS PER MIN.
HEADING TO NEXT LOCATION
1220 SET-UP ON STORM DRAIN BBA / LARGE AMOUNT OF SEDIMENT / HOLE IS DUG OUT TO CREATE SAMPLE AREA / WAIT 30 MINS +/- TO LET WATER FLUSH OUT
1300 SET-UP ON STORM DRAIN BBC / REMOVE GRATE / BBC HAS NO FLOW SOME STAGNANT WATER TRAPPED BUT NO FLOW (BBB, WEST OF BBC IS BURIED)
1305 SET-UP ON STORM DRAIN BBD
Very low flow (seepage) from 16" line from West and 12" line from east.
Flow approx. 0.25 liter/min from each incomming line. Total outflow 0.5 liter/min.
Sampling at catch basin BBD in place of dry catch basin BBC
Sample collected from 16" line entering catch basin from the West
1330 Sample ID 385-S14-059 & Field ID S14-DGS(CB-BBD) GWI
Sample Time 1330

1340 COLLECT SAMPLE 385-S14-058 FROM BBA STORM DRAIN. ESTIMATED FLOW RATE IS APPROX. 2 L PER MINUTE. SITE SECURED / HEADING TO NEXT LOCATION

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Project No.
Book No. 180 TITLE Storm Sewer Sampling

From Page No. 7/13/01

OU 1/2 DGS Alameda
Gregorio R. / B. White
Overcast / 68°

Sample Catchbasin 2-8
Open manhole, observe slow flow (seepage) into catch basin and flowing out.
Collect sample @ 9:40 from opening of outflow pipe (sample ID 385-S23-016)
Estimated flow rate @ 1 liter per minute (measured volume / time)

Open Catchbasin 5-0 at 10:27. Dry and dusty; no recent flow.
Check upstream catchbasins 5-0A and 4-0; both had stagnant water in bottom of catchbasin but well below outflow pipes.
No Samples collect due to lack of infiltration.

Open Catchbasin 9G @ 11:00. low flow in and out
Use small sandbag and plastic to create small pool in mouth of inlet pipe to pump sample from
Collect Samples @ 11:40 (Laboratory ~~Sample~~ ID 385-S05-130)
Field ID, S05-DGS-MH-9G
Measured flow; filled 1 liter container in 1 min, 16 sec = 1.27 min
$\frac{1 \text{ liter}}{1.27 \text{ min}}$ = 0.79 liters/min

12:47 Open Catchbasin 12. Low Flow going out. Collect Sample at 13:00 (Laboratory ~~Sample~~ ID 385-S05-135) (Field ID S05-DGS-CB-12-GWI)
Water flowing out at 1.25 ft/min, 48" diameter pipe, water level 16" above invert.

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3 mobile

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Gary Thomas/Bill White
United Associates
7/20/01
Page 1 of

Overcast @ 60°, light wind

0845 Arrive at Seaplane Lagoon to look at outfalls. water below inverts
Sample outfall "G" at 6:54. ~~Flow rate~~ Collect sample directly into sample bottles

Sample Outfall "H" at 7:00. ~~Flow rate~~ Collect sample directly into bottles

0715 Getting flow rate at outfall "G"
- flow = ~ 2 Liter/second

0720 Getting flow rate at outfall "H"
- flow rate = ~ 2 Liters/second

0730 Move to manhole 4/G-1. Low flow ~~to~~ toward outfall, no flow from side line from south. Flow rate 2 gpm
0745 Collect sample with pump from mouth of inflow line

0790 Move to Manhole 5G-1. Low flow toward outfall. Low flow toward outfall at 1 gpm
0801 Pump sample from mouth of inflowing pipe

0821 Move to Manhole 6G-18 (more upstream of the two manholes labled 6G-18 on the map) Near Saratoga street.
Flow is very low (seepage) toward the outfall at 0.25 liter/min.

0835 Sample from bottom of manhole vault with pump

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0900 Move to manhole 3-J. Flowing toward outfall. Obvious oil sheen on water flowing in from east. Low flow coming from north pipe at 1 gpm is clear (no sheen). Solvent or Hydrocarbon odor in manhole

0935 Pump sample from mouth of outflow pipe. Outflow pipe is 24" diameter, water flowing at 5 feet/min, 13 inches deep.

William F. Kirk

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OW-1/2 Alameda

Bill White / Mike Barnes / Gregory Romero

Overcast 66

0830 Open manhole 1-QA. Very slow flow out through manhole. Manhole holds vault is deep and holds several feet of water even at minus tide.

0838 Collect sample from about 1 foot ~~inside the inlet pipe from north~~ below surface in manhole vault. ~~Sample~~ Lab ID 385-S16-024. Field ID S16-DGS-CB-(1-QA)-GWI. Water flowing 0.5 ft ~~in 20 sec~~ per min., 7 inches deep in 12" diameter pipe.

0912 Move to Outfall "Q". Outfall is covered by rip-rap but recognizable by water flowing out of rip-rap. ~~A~~ about 100 ft east of outfall "Q" which is a 12" PVC pipe protruding through rip-rap.

0915 Sampled low flow of water coming from outfall Q. Lab ID 385-S16-025. Field ID S16-DGS-(OF-Q)-GWI. Flow rate measured at 8 liters/min.

1004 Move to manhole 6H. Flow from line to 6H-1 and from 7H-4 both cascading into manhole vault and flowing out to west. Opened manhole 7H-4 and observed no flow from line to 7H-4A so did not install plug. Returned to manhole 6H and sample water (pumped) from about 3' inside line from 7H-4. Lab ID 385-S21-046. Field ID S21-DGS-MH-(6H)-GWI. Inflow line from 7H-4 is 36" diameter with ½-inch water flowing at 0.5 ft/sec.

1110 Search for catch basin IA and Outfall I but neither could be found. Catch basin IB is also missing. Catch basins I and IBB were found and both were dry and mostly filled with sediment. Evidence of asphalt repair suggest that the storm drain line has been removed from outfall "I" to at least catch basin IB. No sample collected at outfall I or catch basin IA (not found)

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7/24/01
Overcast 62°
Bill W. / Mike B. / Gregorio R.
OU 1/2 Alameda

0901 Check manhole 7A. Water depth @ 3" above invert in incoming line. Will ~~outlet~~ return to sample at a lower tide (later today).

~~Mov~~

0921 Move to manhole 1-5. Slow flow toward outfall with obvious sheen on water. No flow from line from north.

0944 Collect sample using pump from about 1-inch below the surface, Lab ID 385-509-035. Field ID 509-DGS-(MH-1-5)-GW1. Flow in outlet pipe is 10" deep in 24" pipe flowing at rate of 1 foot in 30 seconds.

1014 Return to manhole 7A and sample. Very slow flow going out toward outfall. Flow in outlet pipe is 2-inches deep in 24" pipe flowing at rate of 1 foot in 40 seconds. Lab ID 385-505-126. Field ID 505-DGS-(MH-7A)-GW1.

Walter E. [illegible]

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overcast Low 60°C

Laura Genin / Kirk Martin

0700 Arrive @ Field office Load Trucks

0800 Retrieve drillers from coring, coring materials Broken, Drillers call for Backup corer.

0830 Setup @ S05-DGS-DP25, Drill to 7', Not Enough water Drill Deeper to 9' for water.

1000 Collect 385-S05-071 from 7-9' S05-DGS-DP25-GW-9

1010 Collect 385-S05-072A & 385-S05-072 from S05-DGS-DP25-GW-14 sample A is a confirmation sample to be sent to APCL

1030 collect 385-S05-073, 17-19' @ S05-DGS-DP25-GW-17, Move to New Hole

1045 Setup @ S05-DGS-DP26-GW-9, Drill 9' BGS.

1100 Sample 385-S05-074 @ S05-DGS-DP26-GW from 7-9' BGS

1120 Sample 385-S05-904 @ S05-DGS-DP26-GW Duplicate from 7-9' BGS

1125 Setup @ S05-DGS-DP27-GW, Drill 9' BGS.

1135 Collect 385-S05-075 @ S05-DGS-DP27-GW 7-9' BGS.

1200 Load & Secure site / Break for Lunch. Will reconvene @ Site 16

1300 Setup @ site 16

1320 Begin ~~S016~~ S16-DGS-DP09-S0-4, Refusal @ 2.0' Below concrete. Concrete. Move to New Boring

1330 Begin S16-DGS-DP08-S0-4,

1400 Sample S16-DGS-DP08-S0-4 4-4.5' 385-S16-009/LOG

1405 Redrill S16-DGS-DP09-S0-4, Try to Break Through concrete

1410 Refusal again. Move to New location

1411 Setup @ S16-DGS-DP04-GW

1430 Try to Sample from 4-6' BGS. No water, Drill Deeper

1445 Sample 385-S16-007 6-8' BGS, S16-DGS-DP04-GW

1500 Load & secure Site Return to Field Trailer.

7/25/01

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m Page No. 7/26/01 UHA Kirk S. Martin

0700 Arrive @ field office - pick up truck
0745 Arrive @ site 16 - Try again to collect soil sample from DP09.
0805 Begin Drilling S16 - DP09
0820 Hit refusal again ~1' below concrete. Gary will be discussing moving the location w/ Tremil -- Demob to Site 06
0830 Arrive @ site 06
0940 Collect Sample 385-S06-043 from DP04
1000 Collect Sample 385-S06-044A from DP03
Confirmation sample collected @ DP03 - 385-S06-044A
1115 Collect Sample 385-S06-045 from DP11 (step-out) (5'-7')
1140 Collect Sample 385-S06-046 from DP11 (10'-12')
1330 Collect Sample 385-S06-047 from DP13 (5'-7')
1345 Collect Sample 385-S06-048 " (12-14')
1420 Re-collected Sample 385-S06-046 @ 12'-14'
1445 Collect Sample 385-S06-049 from DP01 (12'-14')
1515 Collect Sample 385-S06-050 from DP12 (5'-7')
1515 Collect Sample 385-S06-051 from DP12 (12'-14')
1600 Left site 06 - Site secured
1605 Arrive @ field office
1620 Equipment Rinsate for VOC Sample # 385-S06-908
1650 Leave Alameda Pt.

7/26/01

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7/27/01
Kirk Martin/Laura Genin
Direct Push
0700 Arrive @ Alameda Field office, Health & safety meeting; Load trucks,
0740 Setup @ S16-DGS-DPD9, Re-cored after ~~last week~~ Wednesday's Refusal @ 8.0'
0800 Recieve 0-2' cored, No sample log. Concrete core 1' Deep
0805 Recieve 2-5' Sample 4-4.5' ~~385-50~~ 385-S16-010
0900 Arrive @ Bldg 5, Already open.
0930 Setup @ & S05-DGS-DP24-GW
0940 Drill to 7' Pull Back to 5' No water, Go Deeper
0950 Collect sample from 6-8' 385-S05-068, 385-S05-068A confirmation and MS MSD for APCL.
1032 Collect Sample from 11-13' 385-S05-069
1040 Rig Breaks Down, Hydralic fluid spills into Hole.
1300 Rig fixed, hole contaminate, a new hole is cored ~~for~~ to collect deep sample
1340 New coring removed Ready to Drill for sample
1400 Collect sample 15-17' 385-S05-070
1420 Load & secure site Return to Trailer for Rinsate

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7/30/01

Kirk Martin Laura Genin ~~Est~~ Eugene

Alameda Point Data Gap investigation G006938SB040301

0700 Arrive @ site/Load trucks/ H & S Meeting

0740 Setup @ in Bldg 5 site 5.

0820 Begin Drilling S05-DGS-DP23 (385-505-065, 66, 67)

0825 5-7' BGS Dry, Drill to 8'

0830 Sample S05-DGS-DP23-~~0~~ GW-6 (6-8') BGS (385-505-065) Sample ID

0910 Sample S05-DGS-DP23-~~GW~~ GW-11 (11-13' BGS) (385-505-066) Sample ID.

0930 Sample S05-DGS-DP23-GW-16 (16-18' BGS) 385-505-067) Sample ID

0945 Load & secure site Move to DP21

1020 Sample S05-DGS-DP21-GW-6 (6-8' BGS) 385-505-059 Sample ID
was Dry @ 5.0-7' BGS.

1100 Sample S05-DGS-DP21-GW-11 (11-13' BGS) 385-505-060 = Sample ID

1130 Sample S05-DGS-DP21-GW-16 (16-18' BGS) 385-505-061 = Sample ID

1000 Setup @ S05-DGS-DP22 Refusal @ 2.0' BGS, will Recore later
and Try again.

1200 Load & secure site Break for lunch.

1250 Setup @ S05-DGS-DP28

1300 Dry @ 5-7' Drill to 8' BGS.

~~1305~~ 1320 Dry @ 6-8' Drill to 9' BGS.

1330 Sample S05-DGS-DP28-~~G~~GW-8 Sample ID: 385-505-076,
Labeled as Taken @ 1310.

1400 Load & secure site Move to S05-DGS-DP22, Previous Refusal.

1410 Re core hole Near original within utility cleared Box.

1425 Re attempt Drill to 7.0' BGS.

~~1430~~ 1450 Sample S05-DGS-DP22-~~S0~~-GW-7' 385-505-062

1520 Sample S05-DGS-DP22-GW-11' 385-505-063
Confirmation Sample 385-505-063A

1530 Sample S05-DGS-DP22-GW-16' 385-505-064

1550 Load & Secure site. Return to Trailer

7/30

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7/31

0715 Arrive @ site Geregorio & Laura
Load Trucks.

0750 Setup @ Site 21

0820 Setup @ S21-DGS-DP05-GW

0840 Drill to 7.0' Pull Back to 5', No $H_2O$ wait 2 min.

0844 No $H_2O$ Drill to 8.0' Pull Back to 6'

0848 Sample S21-DGS-DP05-GW-7' 385-S21-016 (~~6-8'~~ 7-9' BGS)

0950 Sample S21-DGS-DP05-GW-~~12~~ 385-S21-017 (12-14') 385-S21-017A confirm

1015 Setup @ S21-DGS-DP06-GW

1038 Sample 5-7' BGS S21-DGS-DP06-GW-5' 385-S21-018

1055 Sample 10-12' BGS S21-DGS-DP06-GW-10' 385-S21-019

1115 Secure site Move to ~~DP21~~ DP07

1130 Setup @ S21-DGS-DP07-GW

1200 ~~to~~ Sample 5-7' BGS S21-DGS-DP07-GW-5 385-S21-020

1240 End sample Load & Secure site move to DP03 Inside Bld

1300 Begin coring S21-DGS-DP03

1340 Begin Drilling DP03

1400 Sample S21-DGS-DP03-GW-15 15-17' BGS 385-S21-008

1450 Sample S21-DGS-DP03-GW-20 20-22' BGS 385-S21-009

1530 Sample S21-DGS-DP03-GW-30 30-32' BGS 385-S21-010
No parameters taken due to lack of $H_2O$. May be that pump isn't Strong enough will use Bailer for next Depth

~~1650 Sample S21-DGS-DP03-GW-40 40-42' BGS 385-S21-011~~

1700 Try to sample 40-42', Dry, ~~leave~~ Increase screen interval from 39-42' BGS and leave over Night

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0700 Arrive @ Site Load Trucks
0730 Setup @ S21-DGS-DP03-GW-40 for final Dump
0800 Collect 385-S21-011 @ 40'-42' BGS S21-DGS-DP03-GW-40
0830 Load site move to S21-DGS-DP08-SO-9
0845 Setup @ S21-DGS-DP08-SO-9
0900 Sample S21-DGS-DP08-SO-9 (4-4.5') 385-S21-021
0940 Load & secure site lock doors Move to New location
1000 Setup @ S11-DGS-DP01
1100 Sample 4.5-5' 385-S11-004 Soil, & 5-7' BGS 385-S11-005 water
1140 Load & secure site. Move to New Local
1200 ~~Set~~ Lunch
1240 Setup @ S23-DGS-DP01
1300 Sample S23-DGS-DP01-SO-1 1-1.5' BGS, 385-S23-001
1315 Load Site Move to New Location
1330 Setup @ S03-DGS-DP17
1340 Sample 1-1.5' S03-DGS-DP17-SO-1 385-S03-079
1345 Sample 4-4.5' S03-DGS-DP17-SO-4 385-S03-080
1345 Sample 6-6.5 S03-DGS-DP17-SO-6 385-S03-081
1400 Setup @ S03-DGS-DP18
1410 Sample 4-4.5' S03-DGS-DP18-SO-4 385-S03-082
1420 Sample 6-6.5' S03-DGS-DP18-SO-6 385-S03-083
1430 Setup @ S03-DGS-DP16
1440 Refusal @ 2.0' Redrill, Refusal on Sand.
1455 Sample ~~S03~~ 1-1.5 S03-DGS-DP16-SO-1 385-S03-076
1500 Sample 4-4.5' S03-DGS-DP16-SO-4 385-S03-077
1510 Sample 6-6.5' S03-DGS-DP16-SO-6 385-S03-078

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8/2/01
Gregorio Ramirez & Laura Genin.
Alameda Point DGS G0069-385B040301.

0825 Arrive @ site S03.
0828 Begin to setup at S03-DGS-DP15
0852 Begin to rig to our first interval.
0859 385-S03-074 was collected.
0908 V. Poor Recovery from 2-6'
0910 No Recovery from 6-7.5' Recore and Redrill Hole for sample
0930 385-S03-075 was collected.
0940 Finished with S03-DGS-DP15
0955 Moved to S03-DGS-DP14.
1015 385-S03-069 was collected.
1020 385-S03-070 was collected
1030 385-S03-071 was collected.
1048 385-S03-072 was collected and parameters were taken @ 4-6 bgs.
1055 Finished with S03-DGS-DP14. Head to S03-DGS-DP19.
100 Begin coring S03-DGS-DP19.
120 385-S03-084 was collected.
1140 385-S03-085 was collected.
1145 385-S03-086 GW sample was collected.

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8/6/01 Volume Excavations
0700 Load Trucks
0800 Meet w/ Excavators Begin setup @ S16-DGS-VE02
0850 Reach pipeline sample w/ hand auger. 385-S16-022
0930 Sample water 5-7' BGS 385-S16-023 S16-DGS-VE02-GW-5
1000 Load & secure site Move to site 4
1030 Setup @ S04-DGS-VE01
1100 Sample 385-S04-137 8-8.5' BGS PID = 250 PPM
1110 Sample 385-S04-138 8-10' BGS
1200 Lunch Break Load & Secure site
1300 Setup @ S06-DGS-VE01
1330 Sample 3-3.5 can't sample closer to pipe Because groundwater @ 3.0' 385-S06-025
1350 Sample groundwater 385-S06-026
1420 Fill Hole, Secure area
1430 Move to New site S06-DGS-VE02
1500 Sample Soil
1510 Sample Water

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8/7/01 Laura Gedin, Rick Erdman, Miller pipelines,
0700 Arrive @ site Load truck,
0730 Setup @ 504-DGS-~~D~~VE02
0810 Collect 385-504-~~040~~140 Soil 4.5-5'
~~0830 Collect 385-504-041 Water 5-6'~~
0900 Move to site 21; Leave screen in hole will Return when Recharged.
0910 Setup @ 521-DGS-VE01
~~0910~~ 1020 Sample 7.5-8' 385-521-029 Soil
1010 Sample 8-9' 385-521-030 Water
1040 Move to Next Boring
1100 Setup @ 521-DGS-VE02
1115 Sample 8-8.5' 385-521-032 Soil
1130 Sample 8.5-9.2' 385-521-033 water
1200 Lunch
1230 Return to 504-DGS-VE02 for water sample
1345 Sample 385-504-141 water
1350 Move to New location
1355 Setup @ 509-DGS-VE01 collect 385-509-033 Soil 8-8.5'
1400 Collect 385-509-034 water 8.5-10'
1430 Move to New location.
1445 Attempt to find 511-DGS-VE01, No location; Move to New site
1500 Setup @ 513-DGS-VE02
1530 Collect sample 385-513-016 Soil 8-8.5'
1540 Collect sample 385-513-017 water 8.5-10'
1600 Return to Trailer

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8/10/01

0700 ARRIVE @ FIELD OFFICE / MOBILIZE
0830 BEGIN VACUUM EX @ SITE 11
DIG TO APPROX 6' / BLACK TARP AT 5' (DIG @ 2 LOCATIONS)
NO UTILITY FOUND
1000 BEGIN VACUUM EXCAVATION @ SITE 16
DIG THREE HOLES TO APPROX. 6'. NO UTILITY ENCOUNTERED
1405 HEAD BACK TO FIELD TO DEMOBILIZE

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Mike Baines / Gregorio Ramirez
Survey with GSI

0816 Arrived at site 14.
0820 BEGIN SURVEYING
0930 ARRIVED @ SITE 16 / BEGIN SURVEYING
1005 ARRIVE @ SITE 06 / FINISH SURVEYING & LOCATIONS
1055 RETURN TO FIELD OFFICE TO DOWNLOAD DATA

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8/16/01
ON 1/2 - DGS / ALAMEDA PT.
MIKE B. / GREGORIO R.
GPS LOCATIONS

0700 ARRIVE @ U&A FIELD OFFICE / MOBILIZE
0815 BEGIN SURVEYING
NOTES:

S03 - DGS - DP09 = CAN'T FIND BORING
S03 - DGS - DP05 = PDOP TOO HIGH / STILL NEED
S03 - DGS - DP19 = NEEDS MORE CEMENT
1500 HEAD BACK TO FIELD OFFICE TO DOWNLOAD DATA FILES

8/17/01
ON 1/2 DGS / ALAMEDA PT
MIKE B. / GREGORIO R.
GPS LOCATIONS

NOTES:
S03 - DGS - SG02 = NEEDS CONCRETE PLUG TAKEN OUT AND FILL W/ CEMENT
S04 - DGS - DP24 } ~~PAINTED AGAIN / NOT DRILLED YET~~ ?
S04 - DGS - DP26 } NEEDS CEMENT
S04 - DGS - DP27 (NEEDS CONCRETE)
" " DP12 (NEEDS CONCRETE)
" " DP17 " "
" " DP06 " " (ONE ALSO INSIDE DOOR NEEDS CEMENT)
" " DP13 " "
" " DP28 " "
" " DP11 " "
" " DP18 " "
" " DP25 " "
" " DP10 " "
" " SG04 " "
" " SG05 " "
" " SG06 " "
S21 - DGS - DP08 NEEDS MORE CONCRETE

~~DP19~~
~~DP20~~

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NOTES CONT:

S21-D6S-SG01 = COULD NOT BE SURVEYED
" " - HA01 = " " " "
" " HA02 " " " "
" " HA03 " " " "
S05-D6S-DP28 = NEEDS CONCRETE
" " DP22 " "
" " DP21 " "
" " DP24 " "
S05-D6S-DP19 = HAS TWO LOCATIONS
↳ POSSIBLY ONE IS S05-D6S-DP33
S05-D6S-SG01
" " SG02
" " SG03
CAN'T BE GPS'D
TRY AGAIN LATER
S05-D6S-DP01 " " "
S05-D6S-DP23 = CAN'T FIND
S05-D6S-SG13 = " "
" " - SG14 = " "
" " SG15 = " "
S05-D6S-SG08 = TRY AGAIN (PDOP TOO HIGH)
SG09 =
S05-D6S-DP07 = " " "
DP05 = " " "
S05-D6S-DP26 = NEED CONCRETE
" " DP27 = " "
DP25 = NEED CONCRETE
S10-D6S-DP01
" - " - DP02 = NEED KOY
S05-D6S-DP25 = PDOP TOO HIGH / TRY LATER

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# APPENDIX Q
# FIELD SAMPLING PLAN CHANGE ORDER REQUEST FORMS
**(22 Pages)**

Tetra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

6/22/01

**PROJECT NO:** G0069-385B040103

**LOCATION:** **Site: Site 14 Berm at Fire Training Area**
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Where: Top of berm at Site 14 Fire Training Area
Sample locations affected: Vertical coring from top of berm to ground surface
Proposed samples: 1', 3', and 6' soil samples from hand auger borings S14-DGS-HA01, 02, and 03.
Samples collected for Analyses: Dioxins/Furans EPA 8290

Problem encountered:
Berm consists of 50% golf ball sized rock and loose sand. Sample team unable to auger below 4 feet. Rock and loose sand unrecoverable from bottom of boring below 4' bgs (from top of berm). Not able to collect 6' samples from vertical borings. See hand figure below.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

Spoke to Craig Hunter, OU-1 area lead. Suggested collecting 6' bgs samples from lower on the berm.
Sampling team hand augered from lower down on the berm, inwards to the appropriate depth below the top of the berm. Approximately 4' to 6' lateral off-set from vertical boring. 6' samples collected from the native fill material below the berm material, as indicated in the FSP.

Potential affects on data: Berm soil samples collected for dioxin/furan data are for characterization of dioxin concentrations in the berm. Data to be used to delineate contamination for removal action. Possible positive bias of dioxin concentrations for the 6' samples because the sample locations are closer to the surface of the berm, where dioxins may be migrating from. See figure.

Approved on: 6/22, 2001

Approved by:

Neal Hutchison, Project Manager

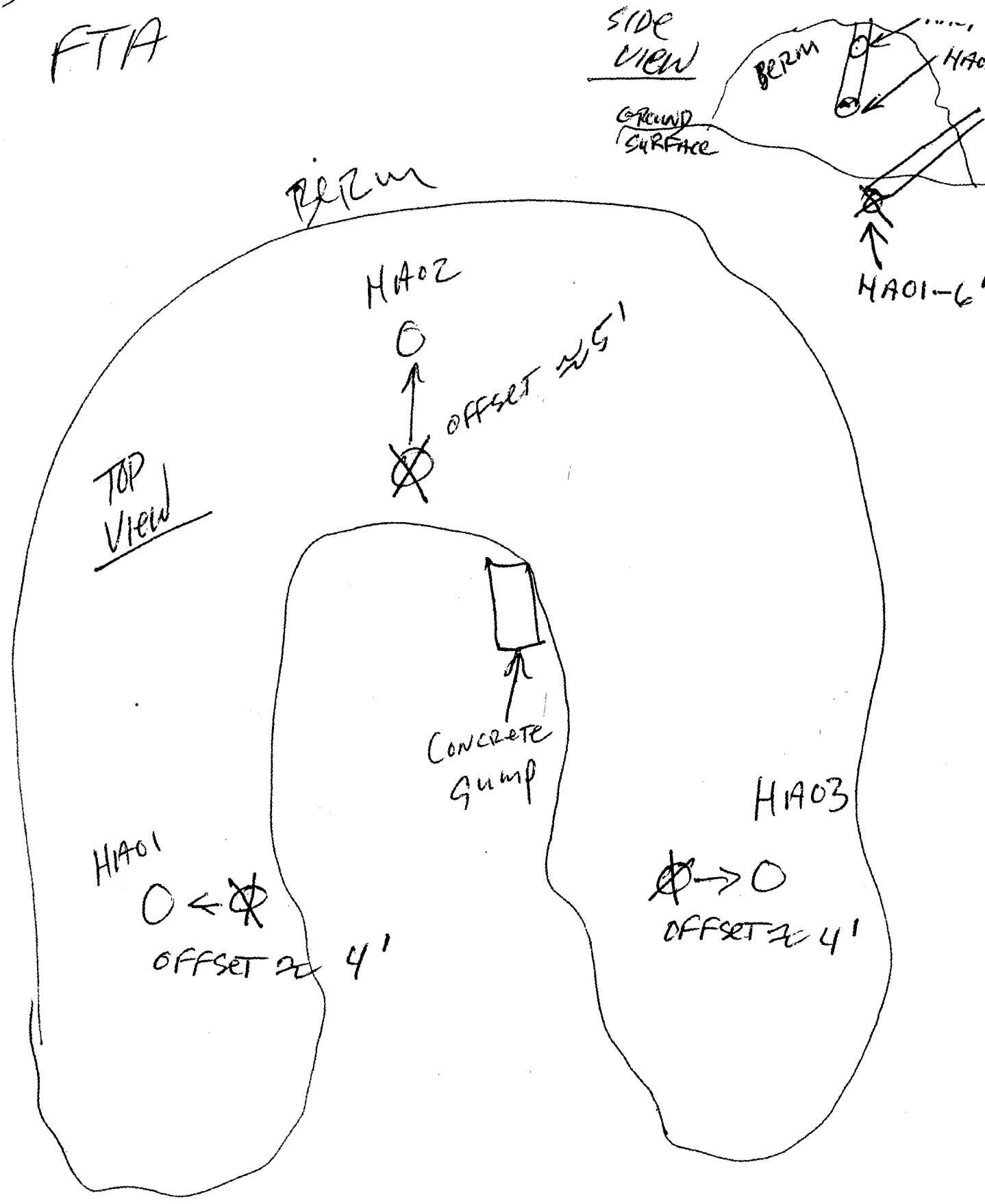
XXXXXXXXX N/A XXXXXXXX
Conrad Sherman, Health & Safety Coordinator

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

FAXED TO RO ON 6/25/01

SITE 14
FTA




⊗ ACTUAL LOCATIONS FOR 6' SAMPLES

○ PROPOSED LOCATIONS FOR 1', 3', & 6' SAMPLE

FAXED
6/25/01

RON OHTA

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From A.P. FIELD
OFFICE

6/25/01

Neal H.

Tetra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

**PROJECT NO:** G0069-385B040103

**LOCATION:** **Site: Site 4, Building 360** **Date:** 6/21/01
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

**Where:** Inside Building 360 (Site 4) and Site 3 soil boring locations
**Sample locations affected:** S03-DGS-DP12 and S04-DGS-DP18
**Affected samples:** Soil samples from direct push borings: Sample I.D.s S03-DGS-DP12-6' and S04-DGS-DP18-5'
**Proposed analyses:** Metals, pH, and/or cyanide

**Problem encountered:** Not able to collect deepest soil samples from soil borings.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

Samples for metals, pH, and/or cyanide are being collected for delineation of contaminants in soil for removal action urposes. Results from these samples will be used to determine step out sampling locations for delineation of contaminants.

Wait for results of shallow soil samples from borings S03-DGS-DP12 and S04-DGS-DP18 to come back from the fixed lab. Based on these results, determine if it is necessary to resample the 6' samples at these boring locations.

Approved on: 6/22/01, 2001

Approved by:

Neal Hutchison, Project Manager

Phil Skorge, Area Lead

Ron Ohta, Project Quality Assurance Manager

XXXXXXXXX N/A XXXXXXXX
Conrad Sherman, Health & Safety Coordinator

If appropriate, Nars Ancog, Navy Quality Assurance Officer

Tetra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

**PROJECT NO:** G0069-385B040103

**LOCATION:** **Site: Site 5 Plating Shop**
Alameda Point, CA

DATE 6/29/01

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Where: Site 5 Plating Shop
Sample locations affected:
Proposed samples: Groundwater samples from direct-push boring S05-DGS-DP19
Samples collected for Analyses: Chrome VI

Problem encountered: None.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

As of 6/29/01, chrome VI samples will be analyzed both for 7196A with a detection limit of 10 ug/L and the newer method, 7199, with a detection limit of 0.5 ug/L. APCL was notified by Neal Hutchison on 6/29/01.

Approved on: 6/29/01

Approved by:

Neal Hutchison, Project Manager

John Swanson, Project Chemist

Ron Ohta, Project Quality Assurance Manager

XXXXXXXXX N/A XXXXXXXX
Conrad Sherman, Health & Safety Coordinator

If appropriate, Nars Ancog, Navy Quality Assurance Officer

Tetra Tech EM, Inc.

# TtEMI ALAMEDA POINT FIELD OFFICE

# FAX COVER SHEET

Date: 6/29/01

Telephone: 510-749-0226
Fax: 510-749-0234

Total Pages: 3

To: RON OHTA / JOHN SWANSON

From: Neel Flatchison

Notes: CHANGE FIELD REQUESTS.

SITES-4 SENT TO PHIL SKORGE.

Tetra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

7/5/01

**PROJECT NO:** G0069-385B040103

**LOCATION:** Site 11
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Monitoring well 37-MJ-MW3 at Area 37 tank farm cannot be located for sampling.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

37-MJ-MW3 has been destroyed as documented in the 4th quarter monitoring report for investigation of TPH contamination prepared by Moju Environmental Technologies.

This well will not be sampled.

Approved on: 7/5, 2001

Approved by:

Neal Hutchison, Project Manager

Phil Skorge, OU-2B Area Lead

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

Tetra Tech EM, Inc.

# TtEMI ALAMEDA POINT FIELD OFFICE

# FAX COVER SHEET

Date: 7/4/01

Telephone: 510-749-0226
Fax: 510-749-0234

Total Pages: 2

To: RON OHTA / JOHN SWANSON

From: Neal Hutchison

Notes: See page 2

E-MAILED TO PHIL SKORGE.

Tetra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

Date: 7/6/01

**PROJECT NO:** G0069-385B040103

**LOCATION:** Site 21 and Site 23
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Groundwater monitoring for various organic constituents.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

Floating product was detected in two wells at Site 23, 530MJ-MW1-MOJ and 530MJ-MW2-MOJ. These wells are located adjacent to the (previously removed) ASTs used for defueling airplanes. The depth of the floating product will be determined using a dual-phase probe. In addition, samples of the product will be collected for visual confirmation; however, the samples will not be sent to the laboratory for analysis. TtEMI will make the Navy aware of floating product in these wells so that the Navy can notify RWQCB.

Well WA-08 at Site 21 was found to be root-impacted from a nearby Liquid Amber tree. The roots will be removed using a down-hole saw blade designed to de-root wells. The well will be re-developed and sampled. TtEMI should discuss decommissioning this well with the Navy.

Approved on: 7/6, 2001

Approved by:

Neal Hutchison, Project Manager

Chris Fennessy, Alameda Point I.C.

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

Tetra Tech EM, Inc.

# TtEMI ALAMEDA POINT FIELD OFFICE

## FAX COVER SHEET

Date: 7/6/01

Telephone: 510-749-0226
Fax: 510-749-0234

Total Pages: 2

To: RON OHTA

From: Neal Hutchison

Notes: See ATTACHED.

'ra Tech EM, Inc.

7/12

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

**PROJECT NO:** G0069-385B040103

**LOCATION:** **Site: Site 14 Storm Sewer Infiltration Samples**
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Problem encountered:
1. Field staff were unable to locate manhole WA at Site 14 using a metal detector. Sediment and infiltration water were supposed to be collected from this location.

2. No water was observed in manhole BBC. Outfall BB could not be found; it's assumedly under the riprap wall. Infiltration water was supposed to be collected from BBC, and if results were greater than ERVs, then water from Outfall BB would be collected.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

1. Sediment and infiltration water were collected from the end of the storm sewer pipe at Outfall W. Sampling was done at low tide; Oakland Inner Harbor tidewater was approximately 4 feet below the bottom the outfall at sampling. Flow was observed at about 2.0 L/min. Sediment was collected from in the pipe, about 2 feet from the end. These samples should meet the objectives for determining potential transport of contaminants from the FTA to the Oakland Inner Harbor.

2. The next downstream manhole from BBC, identified as BBB, and one manhole up from Outfall BB, identified as BBA, were sampled for infiltrating groundwater. Both sets of samples were sent to the laboratory for analysis. Although close together, these samples should meet the objectives of determining the potential transport of contaminants from the chlorinated/TPH groundwater plume area of Site 14 to the Oakland Inner Harbor.

Approved on: 7/12, 2001

Approved by:

Neal Hutchison, Project Manager

Craig Hunter, OU-1 Area lead

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

Tetra Tech EM, Inc.

# TtEMI ALAMEDA POINT FIELD OFFICE

# FAX COVER SHEET

Date: 7/12/01

Telephone: 510-749-0226
Fax: 510-749-0234

Total Pages: 2

To: CHRIS FENNESSY / JOHN SWANSON / CRAIG HUNTER

From: Ned Hf

Notes: See page 2.

tra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

7/13/01

**PROJECT NO:** G0069-385B040103

**LOCATION:** **Site 23 and 5**
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Collection of groundwater monitoring well samples for VOCs, TPPH, TEPH, and SVOCs.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

Floating product detected in three groundwater monitoring wells.
Samples of the water and product were collected from each well. Analyses were changed based on apparent content of the product. See attached memo.

Approved on: 7/13, 2001

Approved by:

Neal Hutchison, Project Manager

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

# SPECIAL INSTRUCTIONS FOR SAMPLES CONTAINING PRODUCT

**Sample 385-S23-008**

Sample container: 8oz glass jar with 1 inch of floating product and 2 inches of water. Product is viscous and smells like crude oil.

1. Analyze product by 8015M for TEPH. Characterize the product type and report as 100% product.

2. Analyze water by 8260 and report for VOCs.

**Sample 385-S23-009**

Sample containers: 2 – 40 ml VOA vials. Water samples; product can be seen stuck to sides of VOA vials. Same product as S23-008.

1. Analyze the product in one of the VOA vials by 8015M for TEPH. Pour off the water and use solvent to extract product from sides of the VOA vial. Characterize product type and report as 100% product.

2. Analyze the water from the other VOA vial by 8260 and report VOCs.

**Sample 385-S05-104**

Sample container: 8oz glass jar with 2 inches of floating product and 1 inch of water. Product is light and smells like gasoline.

1. Analyze product by 8015M for TPPH. Characterize the product type and report as 100% product.

2. Analyze water by 8260 and report VOCs.

Tetra Tech EM, Inc.

# TtEMI ALAMEDA POINT FIELD OFFICE

# FAX COVER SHEET

Date: 7/13/01

Telephone: 510-749-0234
Fax: 510-749-0226

Total Pages: 3

To: RON OHTA / JOHN SWANSON

From: Neal H.

Notes: CHANGE REQUEST

Tetra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

**PROJECT NO:** G0069-385B040103 Date: 7/15/01

**LOCATION:** **Site: Storm Sewer, Site 23**
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Collection of storm sewer infiltration samples for evaluation of preferential pathway at power plant, Site 23.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

No flow observed in manhole 4-O and alternative location 5-OA. Outfall O will be sampled to support TPH program in early August.

Approved on: 7/15/01, 2001

Approved by:

Neal Hutchison, Project Manager

XXXXXXXXXXX N/A XXXXXXXXX
Conrad Sherman, Health & Safety Coordinator

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

D.S.0385.16940

Tra Tech EM, Inc.

7/20/01

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

**PROJECT NO:** G0069-385B040103

**LOCATION:** Site 3
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Step out samples for lead in soil and groundwater at Site 3

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

See attached memo from Phil Skorge.

Approved on: 7/20, 2001

Approved by:

Neal Hutchison, Project Manager

Phil Skorge, OU-2B Area Lead

Chris Fennessy, Installation Coordinator

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

# PROJECT MEMORANDUM

**TETRA TECH, INC.**
670 North Rosemead Blvd.
Pasadena, CA 91107
Telephone (626) 351-4664
Facsimile (626) 351-8126

**Date:** July 20, 2001 **TCN:11594.01**
**To:** Neal Hutchison, Tt-EMI
**Cc:**
**From:** Phil Skorge, Tetra Tech Pasadena
**Subject:** *Step Out Strategy – IR Site 3 Lead Investigation*

---

Summary of Initial Sampling Data

At the Parcel 116/118 area, 5 direct-push sampling locations were conducted. Lead was detected above the soil screening level of 221 mg/kg at 4 of the 5 direct-push locations. The exceedances are as follows:

- DP09 @ 6′ bgs
- DP10 @ 4′ bgs
- DP11 @ 6′ bgs
- DP13 @ 4 and 6′ bgs

One groundwater sample collected in the area also reported an exceedance of the groundwater screening level of 8.1 µg/L, as follows:

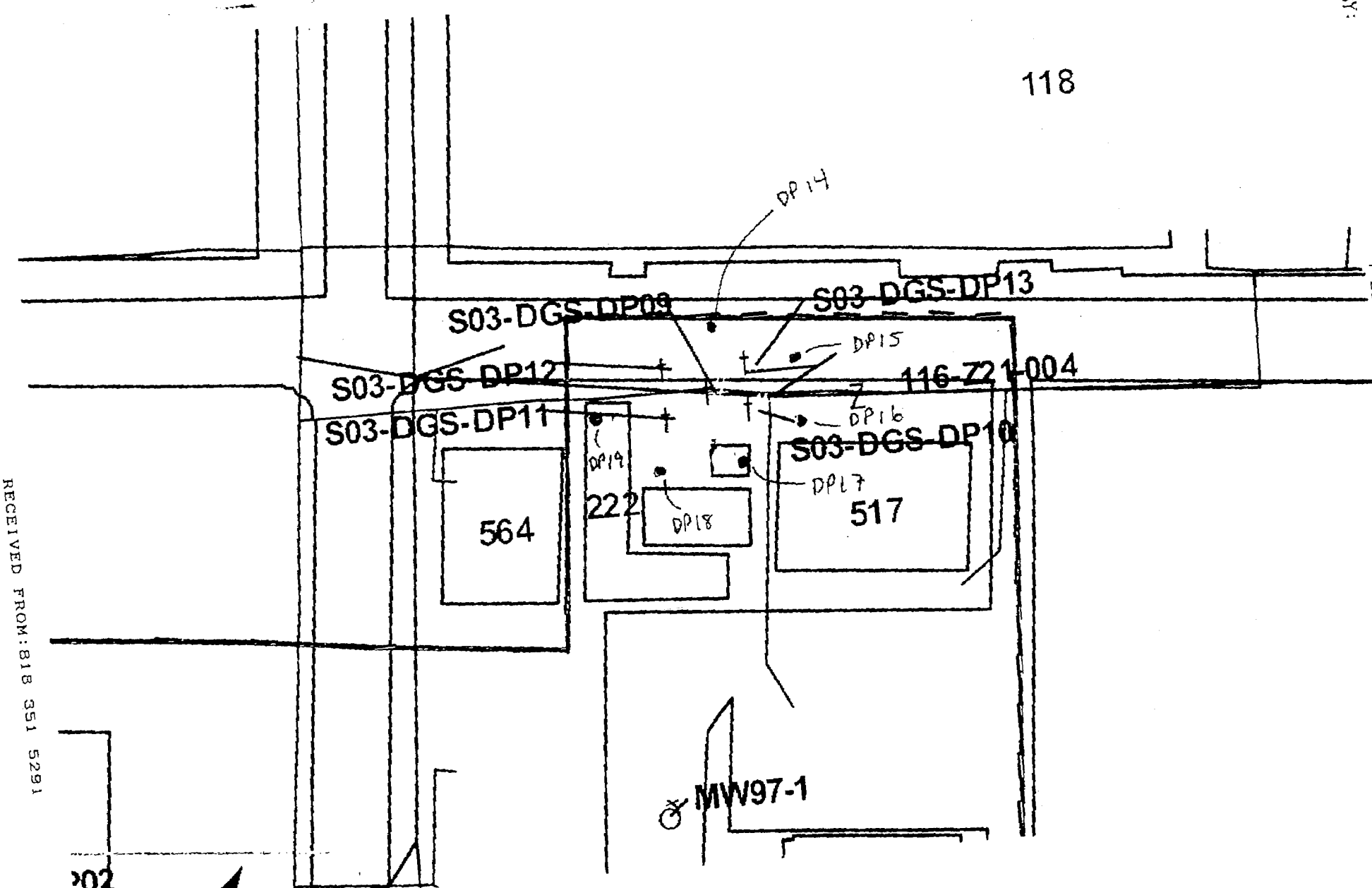
- DP09

Recommended Step-Out Sampling

Appendix B-3, Metals Investigation Step-Out Criteria required 15-foot step out distances. However, since the initial sampling locations are approximately 40 to 50 feet apart, I recommend we step out the same distance. Using this approach, six step-out sampling locations approximately 40 – 50 feet from the initial sampling locations should be sufficient for further delineation of lead in soil and groundwater. The proposed step-out ID's, locations, and depths are as follows:

| Point I.D. | Step-out location | Soil sampling depths (feet bgs) | Groundwater sampling? |
|---|---|---|---|
| S03-DGS-DP14 | Northwest of DP13 | 1, 4, 6 | Yes |
| S03-DGS-DP15 | East of DP13 | 1, 4, 6 | No |
| S03-DGS-DP16 | East of DP10 | 1, 4, 6 | No |
| S03-DGS-DP17 | South of DP10 | 1, 4, 6 | No |
| S03-DGS-DP18 | South of DP11 | 4, 6 | No |
| S03-DGS-DP19 | Northwest of DP11 | 4, 6 | Yes |

Of course, the sampling locations should be somewhat equidistant from each other. The attached figure shows the recommended step-out locations.


DP14
S03-DGS-DP13
S03-DGS-DP09
DP15
S03-DGS-DP12
116-Z21-004
S03-DGS-DP11
DP16
S03-DGS-DP10
DP19
DP17
222
DP18
517
564
MW97-1
>02

Tetra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

**PROJECT NO:** G0069-385B040103 Date: 7/23/01

**LOCATION:** **Site: Storm Sewer, Area 37, near Site 21**
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Collection of storm sewer infiltration samples for evaluation of preferential pathway at Area 37.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

Sampling team could not locate catch basin IA. Alternate sampling points for infiltration of groundwater are catch basins IBB and I, however, these are shallow, less than 3' bgs, and dry. These do not appear to be affected by groundwater infiltration. Outfall I is second alternative, but could not be located. Paving patch to outfall location indicates outfall was removed from service. Confirmation from IT Corporations Storm Sewer Removal Action Report confirms that storm system I and related catch basins were destroyed and not viable.

No alternative locations are available.

Approved on: 7/23/01, 2000

Approved by:

Neal Hutchison, Project Manager

XXXXXXXXXXX N/A XXXXXXXXX
Conrad Sherman, Health & Safety Coordinator

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

D.S.0385.16940

Tra Tech EM, Inc.

# FIELD CHANGE REQUEST FORM

**CLIENT:** US Navy
Alameda Point CTO 385
Contract No. N62474-94-D7609

**PROJECT NO:** G0069-385B040103 Date: 7/23/01

**LOCATION:** **Site: Storm Sewer, Site 16**
Alameda Point, CA

**DESCRIPTION OF FIELD PROCEDURE IN EFFECT:**

Collection of storm sewer infiltration samples for evaluation of preferential pathway at Site 16.

**DESCRIPTION OF PROPOSED CHANGE IN FIELD PROCEDURE:**

Sampling team could not locate manhole 1Q. Alternate sampling point for infiltration of groundwater is Outfall Q.

Approved on: 7/23/01, 2000

Approved by:

Neal Hutchison, Project Manager

XXXXXXXXXXX N/A XXXXXXXXX
Conrad Sherman, Health & Safety Coordinator

Ron Ohta, Project Quality Assurance Manager

If appropriate, Nars Ancog, Navy Quality Assurance Officer

D.S.0385.16940

# APPENDIX R
# INVESTIGATION-DERIVED WASTE
# ANALYTICAL REPORTS AND SHIPPING MANIFESTS
**(14 Pages)**

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CA217002323 6
Manifest Document No.: ~~0 2 3 4 4~~ 0 3 5 7 8
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: NTO ATTN: DELONG
CSO - COMMANDING OFFICER CODE 01
950 W. MALL SQUARE SUITE 200
ALAMEDA CA 94501-5000
4. Generator's Phone (510) 749-5961
A. State Manifest Document Number: 21045585
B. State Generator's ID: HAHW36-034466
5. Transporter 1 Company Name: STURGEON AND SON, INC.
6. US EPA ID Number: CAD004778742
C. State Transporter's ID [Reserved.]
D. Transporter's Phone: (661) 322-4408
7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID [Reserved.]
F. Transporter's Phone:
9. Designated Facility Name and Site Address: CHEMICAL WASTE MANAGEMENT, INC
35251 OLD SKYLINE ROAD
KETTLEMAN CITY, CA 93239
10. US EPA ID Number: P.O. BOX 471 CAT000646117
G. State Facility's ID: CAT000646117
H. Facility's Phone: (559) 386-9711

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste Number |
|---|---|---|---|---|---|
| ~~NON-RCRA HAZARDOUS WASTE LIQUID~~ (WATER) DOT NON-REGULATED, NONE | 001 | TT | ~~04000~~ 02050 | G | State 135; EPA/Other NONE |
| b. | | | | | State; EPA/Other |
| c. | | | | | State; EPA/Other |
| d. | | | | | State; EPA/Other |

J. Additional Descriptions for Materials Listed Above: A)L/- CE5996
K. Handling Codes for Wastes Listed Above: a. 03 06 b. c. d.

15. Special Handling Instructions and Additional Information: PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY NUMBER-INFOTRAC:800 535-5053

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Douglas DeLong
Signature: [signature]
Month Day Year: 12 12 01

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: John Tison
Signature: [signature]
Month Day Year: 12 12 01

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space: Recieved 8322 G. Resolved with Kyle Vargadori at Onyx VHB 12-14-01

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Capra Ashworth
Signature: [signature]
Month Day Year: 12 12 01

DO NOT WRITE BELOW THIS LINE.

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

21045585

DTSC 8022A (1/99)
EPA 8700—22

WEIGHT (LB) TIME DATE COMMODITY: HAZARDOUS WASTE

GROSS 35 12-12-01 55020 lb 27.51 ton DEPUTY WEIGHMASTER

TARE: 18:26 12/12/01 35700 lb 17.85 ton

NET: 19320

YARDAGE: 2322 Gal

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
38251 Old Skyline Road
Kettleman City, CA

NO: 179083

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

| GENERATOR | MANIFEST | PROFILE NO. | SITE DRIVER | SAMPLE TIME: |
|---|---|---|---|---|
| CLO | 01045585 | CC5556 | DATE | LABORATORY IN: |
| TRACTOR LICENSE NO. | TRAILER #1 LICENSE NO. | TRAILER #2 LICENSE NO. | START | RECEIVING OUT: |
| SP81680 | | | FINISH | DRIVER |
| SAMPLE # | BIN # | RECEIPT NO. 354041 | WASHOUT METER | TRANSPORTER |
| 12/12/01 | | | FINISH | |
| | | | START | RELEASING SIGNATURE |
| | | | GALLONS USED | |

**MANDATORY ANALYSIS — ALL WASTES**

| | | | |
|---|---|---|---|
| PAINT FILTER TEST | NA | PASS | FAIL |
| PHYSICAL STATE | SOLID | | LIQUID |
| APPEARANCE | | | |
| pH | | | |
| WATER MIX | ΔT=°F | | SOL |
| FLAM POTENTIAL | NEG | POS | |
| CN-SCREEN | NEG | POS | PPM |
| S= SCREEN | NEG | POS | PPM |
| OXIDIZER | NEG | POS | |
| RADIO SCREEN | BKGD | POS | |
| ALYST | | | |

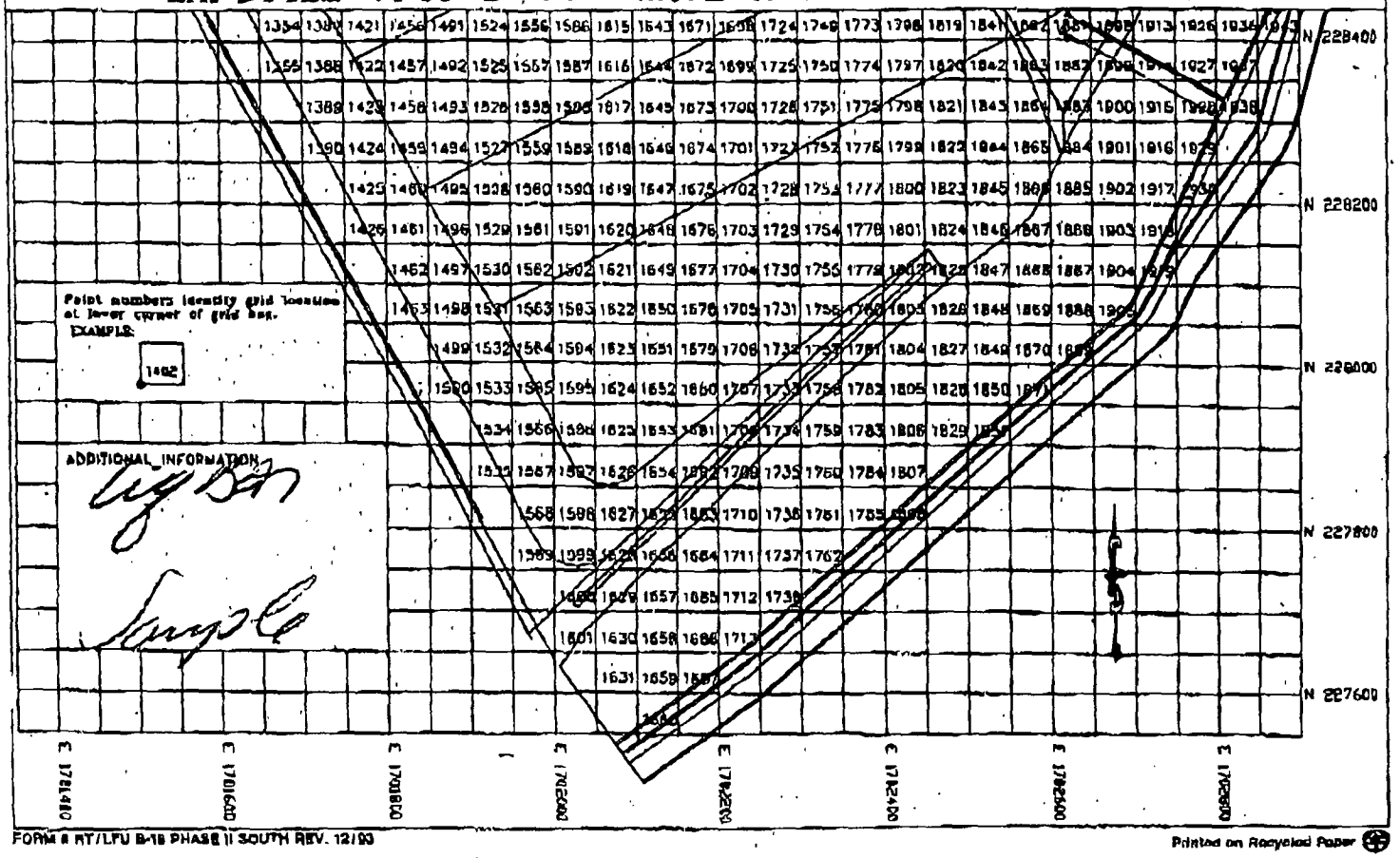
**SUPPLEMENTAL ANALYSIS — TREATED WASTES**

| | | | |
|---|---|---|---|
| VISIBLE OIL | NEG | POS | % |
| PCB SCREEN | NA ND | POS | PPM |
| PERCENT SOLID | | | |
| DENSITY | 3322 | | LBS/GAL |
| CALCULATED QTY | | | |
| LWCT | ΔT = | | °F |
| SET | ΔT = | | °F |
| > 50% DEBRIS | YES | NO | |
| > 50 MM | YES | NO | |
| < 6.75 FT. | YES | NO | |
| CAN MAJORITY OF WASTE BE COATED ON ALL SIDES | YES | NO | INIT. |

MULTIPLE LOAD #
SEE MANIFEST
NO FINGERPRINT PER WAP
PROFILE EXPIRATION 7102
TREATMENT CODE LE UNIT P14
TIME OUT 1713
REC. TECH. CA

DATE
GRID POINT
ELEVATION
TIME AM/PM

# LANDFILL UNIT B-18 PHASE II SOUTH GRID SHEET




Point numbers identify grid location at lower corner of grid box.
EXAMPLE: 1402

ADDITIONAL INFORMATION
Ug Bar
Sample

DEC-21-2001 FRI 01:47 PM FAX NO. P. 04

12/20/01 THU 20:07 FAX 559 386 6131 CHEM WASTE MGMT KHF 004

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

SP77982 M1 01776

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CA217002323 6
Manifest Document No.: ~~0 2 3 4 4~~ 03577
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: NTO ATTN: DELONG
CSO - COMMANDING OFFICER CODE 01
950 W. MALL SQUARE SUITE 200
ALAMEDA CA 94501-5000
4. Generator's Phone (510) 749-5961

A. State Manifest Document Number: 21045583
B. State Generator's ID: HAHQ36-034466
C. State Transporter's ID (Reserved.)
D. Transporter's Phone: (661) 322-4408
E. State Transporter's ID (Reserved.)
F. Transporter's Phone:
G. State Facility's ID: CAT000646117
H. Facility's Phone: (559) 386-9711

5. Transporter 1 Company Name: STURGEON AND SON, INC.
6. US EPA ID Number: CAD004778742
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: CHEMICAL WASTE MANAGEMENT, INC
35251 OLD SKYLINE ROAD
KETTLEMAN CITY, CA 93239
10. US EPA ID Number: P.O. BOX 471 CAT000646117

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste Number |
|---|---|---|---|---|---|
| a. ~~NON-RCRA HAZARDOUS WASTE SOLID~~ (SOIL) DOT NON-REGULATED, NONE | 001 | CM | 00020 | Y | State 352; EPA/Other NONE |
| b. | | | | | State; EPA/Other |
| c. | | | | | State; EPA/Other |
| d. | | | | | State; EPA/Other |

J. Additional Descriptions for Materials Listed Above: A187 - BM7200

K. Handling Codes for Wastes Listed Above: a. 03 b. c. d.

15. Special Handling Instructions and Additional Information: PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY NUMBER-INFOTRAC:800 535-5053

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Douglas DeLong | Douglas DeLong | 12 | 12 | 01 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| John Tison | John Tison | 12 | 12 | 01 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| ~~Douglas DeLong~~ DD | DD | | | |

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Capra Ashworth | [signature] | 12 | 12 | 01 |

DO NOT WRITE BELOW THIS LINE.

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESP CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (1/99)
EPA 8700-22

Front Bin Only

| WEIGHT (LB) | TIME | DATE | COMMODITY: HAZARDOUS WASTE |
|---|---|---|---|
| GROSS: 15:16 | 12-12-01 | 67180 lb | 33.59 ton |
| TARE: 16:22 | 12/12/01 | 42320 lb | 21.16 ton |
| NET: | | | |
| YARDAGE: | | | |

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Station Road
Kettleman City, CA

NO: 179041

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

| GENERATOR | MANIFEST | PROFILE NO. | SITE DRIVER | SAMPLE TIME: |
|---|---|---|---|---|
| C10 | 01045583 | DM7200 | DATE | LABORATORY IN: |
| TRACTOR LICENSE NO. SP77982 | TRAILER #1 LICENSE NO. | TRAILER #2 LICENSE NO. | START | RECEIVING OUT: |
| SAMPLE # 121 18/01 | BIN # 25865 | RECEIPT NO. 55994 | FINISH | DRIVER |
| | | | WASHOUT METER | TRANSPORTER |
| | | | FINISH | |
| | | | START | RELEASING SIGNATURE |
| | | | GALLONS USED | |

**MANDATORY ANALYSIS – ALL WASTES**

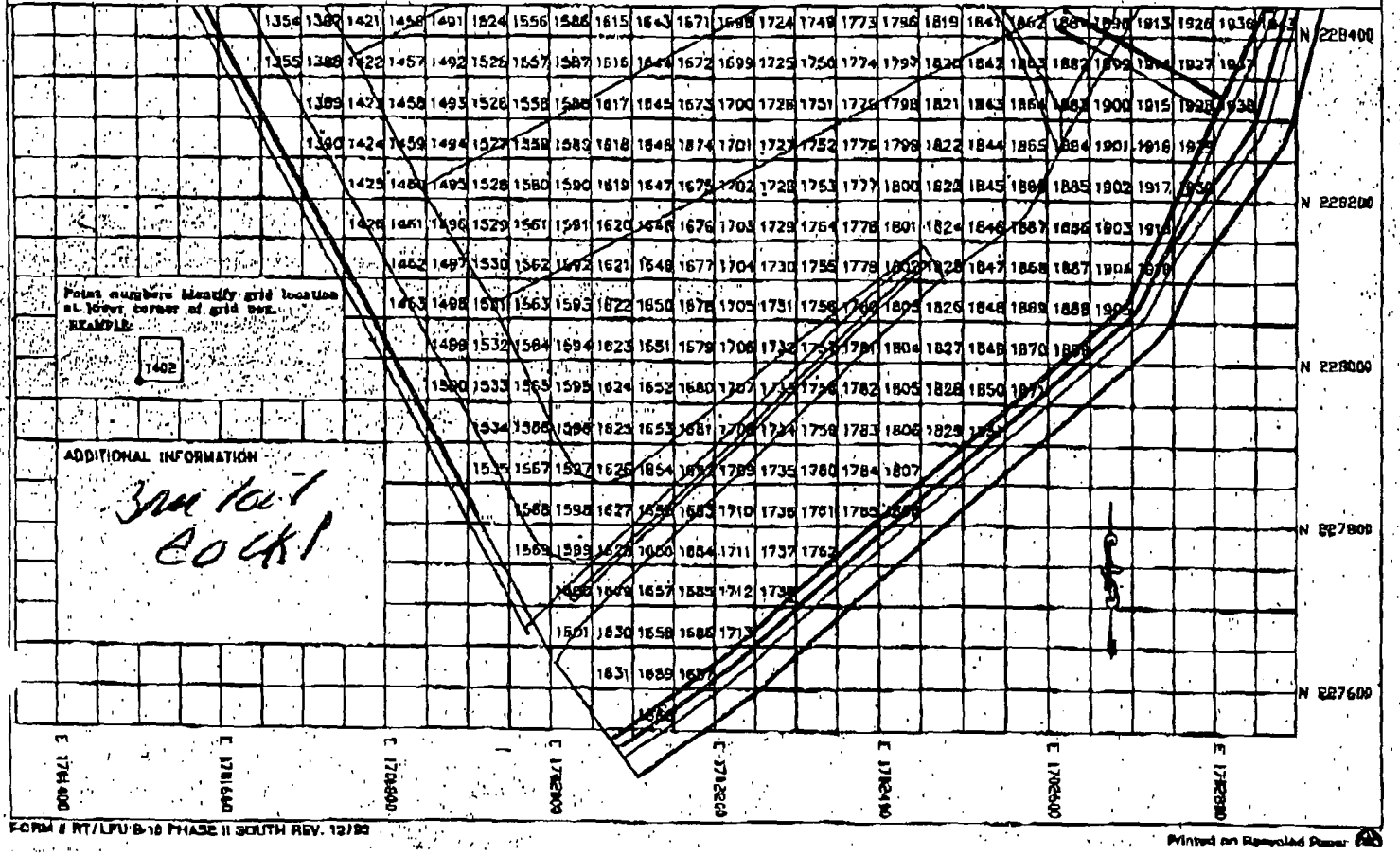
| | | | |
|---|---|---|---|
| PAINT FILTER TEST | NA | PASS | FAIL |
| PHYSICAL STATE | SOLID | LIQUID | |
| APPEARANCE | | | |
| pH | | | |
| WATER MIX | ΔT=°F | | SOL |
| FLAM POTENTIAL | NEG | POS | |
| CN-SCREEN | NEG | POS | PPM |
| Sx SCREEN | NEG | POS | PPM |
| OXIDIZER | NEG | POS | |
| DIO SCREEN | BKGD | POS | |
| ALYST | | | |

**SUPPLEMENTAL ANALYSIS – TREATED WASTES**

| | | | |
|---|---|---|---|
| VISIBLE OIL | NEG | POS | % |
| PCB SCREEN | NA ND | POS | PPM |
| PERCENT SOLID | | | |
| DENSITY | | | LBS/GAL |
| CALCULATED QTY | | | |
| LWQ | ΔT = | | °F |
| SET | ΔT = | | °F |
| > 50% DEBRIS | YES | NO | |
| > 60 MM | YES | NO | |
| < 6.75 FT. | YES | NO | |
| CAN MAJORITY OF WASTE BE COATED ON ALL SIDES | YES | NO | INIT. |

| | |
|---|---|
| MULTIPLE LOAD # | DATE |
| SEE MANIFEST | GRID POINT |
| NO FINGERPRINT PER WAP | ELEVATION |
| PROFILE EXPIRATION 8/02 | TIME |
| TREATMENT CODE 3C UNIT B18 | |
| TIME OUT 1534 | |
| REC. TECH. CA | |

# LANDFILL UNIT B-18 PHASE II SOUTH GRID SHEET



Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

# APCL Analytical Report

Submitted to:
Tetra Tech EM Inc
Attention: John Swanson
10670 White Rock Road., Suite 100
Rancho Cordova CA 95670
Tel: (916)852-8300 Fax: (916)852-0307

Service ID #: 801-016629
Collected by: Gary T./Rick E.
Collected on: 10/23/01

Received: 10/24/01
Extracted: 10/25-29/01
Tested: 10/25-11/06/01
Reported: 11/16/01

Sample Description: Soil and Water from CTO 030
Project Description: G0069-385B040103 Alameda Point

## Analysis of Water and Soil Samples

### I. Analysis of Water Samples

| Component Analyzed | Method | Unit | CRDL (PQL) | Analysis Result 385-IDW-002 01-06629-1 |
|---|---|---|---|---|
| CLP METALS (FULL CLP 23 METALS) | | | | |
| Dilution Factor | | | | 2 |
| ALUMINUM | CLP-Metal | µg/L | 50.0 | 125 |
| ANTIMONY | CLP-Metal | µg/L | 6.0 | 8.7J |
| ARSENIC | CLP-Metal | µg/L | 10.0 | <20.0 |
| BARIUM | CLP-Metal | µg/L | 200 | 159J |
| BERYLLIUM | CLP-Metal | µg/L | 4.0 | <8.0 |
| CADMIUM | CLP-Metal | µg/L | 5.0 | 1.5J |
| CALCIUM | CLP-Metal | µg/L | 5000 | 104,000 |
| CHROMIUM | CLP-Metal | µg/L | 10.0 | 36.4 |
| COBALT | CLP-Metal | µg/L | 50.0 | 36.4J |
| COPPER | CLP-Metal | µg/L | 25.0 | 10.3J |
| IRON | CLP-Metal | µg/L | 100 | 207 |
| LEAD | CLP-Metal | µg/L | 3.0 | 3.3J |
| MAGNESIUM | CLP-Metal | µg/L | 5000 | 20,900 |
| MANGANESE | CLP-Metal | µg/L | 15.0 | 21.0J |
| Dilution Factor | | | | 1 |
| MERCURY | CLP-Metal | µg/L | 0.20 | 0.056J |
| Dilution Factor | | | | 2 |
| MOLYBDENUM | CLP-Metal | µg/L | 5.0 | 30.2 |
| NICKEL | CLP-Metal | µg/L | 40.0 | 22.1J |
| POTASSIUM | CLP-Metal | µg/L | 5000 | 32,400 |
| SELENIUM | CLP-Metal | µg/L | 5.0 | <10.0 |
| SILVER | CLP-Metal | µg/L | 10.0 | <20.0 |
| SODIUM | CLP-Metal | µg/L | 5000 | 620,000 |
| THALLIUM | CLP-Metal | µg/L | 5.0 | <10.0 |
| VANADIUM | CLP-Metal | µg/L | 50.0 | 27.3J |
| ZINC | CLP-Metal | µg/L | 20.0 | 15.2J |
| Dilution Factor | | | | 1 |
| GASOLINE RANGE ORGANICS | M8015V | mg/L | 0.05 | <0.05 |
| Dilution Factor | | | | 1 |
| DIESEL RANGE ORGANICS | M8015E | mg/L | 0.1 | 1.1ZD [a] |
| JP-5 | M8015E | mg/L | 0.1 | <0.1 |
| MOTOR OIL RANGE ORGANICS | M8015E | mg/L | 0.1 | <0.1 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | CRDL (PQL) | Analysis Result 985-IDW-002 01-06629-1 |
|---|---|---|---|---|
| SEMI-VOC, 64 COMPOUNDS | | | | |
| Dilution Factor | | | | 1 |
| ACENAPHTHENE | SW8270C | µg/L | 10 | <10 |
| ACENAPHTHYLENE | SW8270C | µg/L | 10 | <10 |
| ANTHRACENE | SW8270C | µg/L | 10 | <10 |
| BENZO(A)ANTHRACENE | SW8270C | µg/L | 10 | <10 |
| BENZO(A)PYRENE | SW8270C | µg/L | 0.99 (b) | <0.99 |
| BENZO(B)FLUORANTHENE | SW8270C | µg/L | 10 | <10 |
| BENZO(G,H,I)PERYLENE | SW8270C | µg/L | 10 | <10 |
| BENZO(K)FLUORANTHENE | SW8270C | µg/L | 10 | <10 |
| BIS(2-CHLOROETHOXY)METHANE | SW8270C | µg/L | 10 | <10 |
| BIS(2-CHLOROETHYL)ETHER | SW8270C | µg/L | 10 | <10 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | SW8270C | µg/L | 10 | <10 |
| BIS(2-ETHYLHEXYL)PHTHALATE | SW8270C | µg/L | 4 | <4 |
| 4-BROMOPHENYL-PHENYLETHER | SW8270C | µg/L | 10 | <10 |
| BUTYLBENZYLPHTHALATE | SW8270C | µg/L | 10 | <10 |
| CARBAZOLE | SW8270C | µg/L | 10 | <10 |
| 4-CHLORO-3-METHYLPHENOL | SW8270C | µg/L | 10 | <10 |
| 4-CHLOROANILINE | SW8270C | µg/L | 15 (b) | <15 |
| 2-CHLORONAPHTHALENE | SW8270C | µg/L | 10 | <10 |
| 2-CHLOROPHENOL | SW8270C | µg/L | 10 | <10 |
| 4-CHLOROPHENYL-PHENYLETHER | SW8270C | µg/L | 10 | <10 |
| CHRYSENE | SW8270C | µg/L | 10 | <10 |
| DI-N-BUTYLPHTHALATE | SW8270C | µg/L | 10 | <10 |
| DI-N-OCTYLPHTHALATE | SW8270C | µg/L | 10 | <10 |
| DIBENZ(A,H)ANTHRACENE | SW8270C | µg/L | 20 | <20 |
| DIBENZOFURAN | SW8270C | µg/L | 10 | <10 |
| 1,2-DICHLOROBENZENE | SW8270C | µg/L | 5 | <5 |
| 1,3-DICHLOROBENZENE | SW8270C | µg/L | 5 | <5 |
| 1,4-DICHLOROBENZENE | SW8270C | µg/L | 5 | <5 |
| 3,3'-DICHLOROBENZIDINE | SW8270C | µg/L | 14 (b) | <14 |
| 2,4-DICHLOROPHENOL | SW8270C | µg/L | 10 | <10 |
| DIETHYLPHTHALATE | SW8270C | µg/L | 10 | <10 |
| DIMETHYLPHTHALATE | SW8270C | µg/L | 10 | <10 |
| 2,4-DIMETHYLPHENOL | SW8270C | µg/L | 10 | <10 |
| 4,6-DINITRO-2-METHYLPHENOL | SW8270C | µg/L | 25 | <25 |
| 2,4-DINITROPHENOL | SW8270C | µg/L | 25 | <25 |
| 2,4-DINITROTOLUENE | SW8270C | µg/L | 10 | <10 |
| 2,6-DINITROTOLUENE | SW8270C | µg/L | 10 | <10 |
| FLUORANTHENE | SW8270C | µg/L | 10 | <10 |
| FLUORENE | SW8270C | µg/L | 10 | <10 |
| HEXACHLOROBENZENE | SW8270C | µg/L | 10 | <10 |
| HEXACHLOROBUTADIENE | SW8270C | µg/L | 10 | <10 |
| HEXACHLOROCYCLOPENTADIENE | SW8270C | µg/L | 11 (b) | <11 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | CRDL (PQL) | Analysis Result 385-IDW-002 01-06629-1 |
|---|---|---|---|---|
| HEXACHLOROETHANE | SW8270C | µg/L | 10 | <10 |
| INDENO(1,2,3-CD)PYRENE | SW8270C | µg/L | 10 | <10 |
| ISOPHORONE | SW8270C | µg/L | 10 | <10 |
| 2-METHYLNAPHTHALENE | SW8270C | µg/L | 10 | <10 |
| 3/4-METHYLPHENOL | SW8270C | µg/L | 10 | <10 |
| 2-METHYLPHENOL | SW8270C | µg/L | 10 | <10 |
| NAPHTHALENE | SW8270C | µg/L | 10 | <10 |
| 2-NITROANILINE | SW8270C | µg/L | 25 | <25 |
| 3-NITROANILINE | SW8270C | µg/L | 25 | <25 |
| 4-NITROANILINE | SW8270C | µg/L | 25 | <25 |
| NITROBENZENE | SW8270C | µg/L | 10 | <10 |
| 2-NITROPHENOL | SW8270C | µg/L | 10 | <10 |
| 4-NITROPHENOL | SW8270C | µg/L | 25 | <25 |
| N-NITROSO-DI-N-PROPYLAMINE | SW8270C | µg/L | 10 | <10 |
| N-NITROSODIPHENYLAMINE | SW8270C | µg/L | 11 (b) | <11 |
| PENTACHLOROPHENOL | SW8270C | µg/L | 25 | <25 |
| PHENANTERENE | SW8270C | µg/L | 10 | <10 |
| PHENOL | SW8270C | µg/L | 10 | <10 |
| PYRENE | SW8270C | µg/L | 10 | <10 |
| 1,2,4-TRICHLOROBENZENE | SW8270C | µg/L | 10 | <10 |
| 2,4,5-TRICHLOROPHENOL | SW8270C | µg/L | 25 | <25 |
| 2,4,6-TRICHLOROPHENOL | SW8270C | µg/L | 10 | <10 |
| ORGANOCHLORINE PESTICIDES | | | | |
| Dilution Factor | | | | 1 |
| ALDRIN | 8081A | µg/L | 0.05 | <0.05 |
| BETA-BHC | 8081A | µg/L | 0.05 | <0.05 |
| ALPHA-BHC | 8081A | µg/L | 0.05 | <0.05 |
| DELTA-BHC | 8081A | µg/L | 0.05 | <0.05 |
| GAMMA-BHC (LINDANE) | 8081A | µg/L | 0.05 | <0.05 |
| ALPHA-CHLORDANE | 8081A | µg/L | 0.05 | <0.05 |
| GAMMA-CHLORDANE | 8081A | µg/L | 0.05 | <0.05 |
| 4,4'-DDD | 8081A | µg/L | 0.1 | <0.1 |
| 4,4'-DDE | 8081A | µg/L | 0.1 | <0.1 |
| 4,4'-DDT | 8081A | µg/L | 0.1 | <0.1 |
| DIELDRIN | 8081A | µg/L | 0.1 | <0.1 |
| ENDOSULFAN I | 8081A | µg/L | 0.05 | <0.05 |
| ENDOSULFAN II | 8081A | µg/L | 0.1 | <0.1 |
| ENDOSULFAN SULFATE | 8081A | µg/L | 0.1 | <0.1 |
| ENDRIN | 8081A | µg/L | 0.1 | <0.1 |
| ENDRIN ALDEHYDE | 8081A | µg/L | 0.1 | <0.1 |
| ENDRIN KETONE | 8081A | µg/L | 0.1 | <0.1 |
| HEPTACHLOR | 8081A | µg/L | 0.01 | <0.01 |
| HEPTACHLOR EPOXIDE | 8081A | µg/L | 0.01 | <0.01 |
| METHOXYCHLOR | 8081A | µg/L | 0.5 | <0.5 |
| TOXAPHENE | 8081A | µg/L | 3 | <3 |

N00236.000406
ALAMEDA POINT
SSIC NO. 5090.3

# APPENDIX R - INVESTIGATION-DERIVED WASTE ANALYTICAL REPORTS AND SHIPPING MANIFESTS

## APCL ANALYTICAL REPORT
## PAGE 4

## DATA SUMMARY REPORT – SUPPLEMENTAL REMEDIAL INVESTIGATION DATA GAP SAMPLING FOR OPERABLE UNITS 1 AND 2

THE ABOVE IDENTIFIED PAGE IS NOT AVAILABLE.

EXTENSIVE RESEARCH WAS PERFORMED BY SOUTHWEST DIVISION TO LOCATE THIS PAGE. THIS PAGE HAS BEEN INSERTED AS A PLACEHOLDER AND WILL BE REPLACED SHOULD THE MISSING ITEM BE LOCATED.

QUESTIONS MAY BE DIRECTED TO:

**DIANE C. SILVA**
**RECORDS MANAGEMENT SPECIALIST**
**SOUTHWEST**
**NAVAL FACILITIES ENGINEERING COMMAND**
**1220 PACIFIC HIGHWAY**
**SAN DIEGO, CA 92132**

**TELEPHONE: (619) 532-3676**

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
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# APCL Analytical Report

## II. Analysis of Soil Samples

| Component Analyzed | Method | Unit | CRDL (PQL) | Analysis Result 385-IDW-001A,B,C,D,E 01-06629-(3 to 7) |
|---|---|---|---|---|
| MOISTURE | ASTM-D2216 | %Moisture | 0.5 | 3.0 |
| PH | 9045C | pH unit | 0.1 | 9.02 |
| CLP METALS (FULL CLP 23 METALS) | | | | |
| Dilution Factor | | | | 1 |
| ALUMINUM | CLP-Metal | mg/kg | 10.0 | 6,110 |
| ANTIMONY | CLP-Metal | mg/kg | 1.2 | 0.45J |
| ARSENIC | CLP-Metal | mg/kg | 0.39 | 3.2 |
| BARIUM | CLP-Metal | mg/kg | 40.0 | 63.4 |
| BERYLLIUM | CLP-Metal | mg/kg | 0.80 | <0.82 |
| CADMIUM | CLP-Metal | mg/kg | 1.0 | 0.38J |
| CALCIUM | CLP-Metal | mg/kg | 1000 | 7,950 |
| CHROMIUM | CLP-Metal | mg/kg | 2.0 | 33.8 |
| COBALT | CLP-Metal | mg/kg | 10.0 | 9.3J |
| COPPER | CLP-Metal | mg/kg | 5.0 | 18.2 |
| IRON | CLP-Metal | mg/kg | 20.0 | 12,500 |
| LEAD | CLP-Metal | mg/kg | 0.60 | 22.1 |
| MAGNESIUM | CLP-Metal | mg/kg | 1000 | 3,530 |
| MANGANESE | CLP-Metal | mg/kg | 3.0 | 183 |
| MERCURY | CLP-Metal | mg/kg | 0.10 | 0.42 |
| MOLYBDENUM | CLP-Metal | mg/kg | 1.0 | 0.27J |
| NICKEL | CLP-Metal | mg/kg | 8.0 | 33.8 |
| POTASSIUM | CLP-Metal | mg/kg | 1000 | 702J |
| SELENIUM | CLP-Metal | mg/kg | 1.0 | <1.0 |
| SILVER | CLP-Metal | mg/kg | 2.0 | <2.1 |
| SODIUM | CLP-Metal | mg/kg | 1000 | <1090 |
| THALLIUM | CLP-Metal | mg/kg | 0.40 | <0.41 |
| VANADIUM | CLP-Metal | mg/kg | 10.0 | 24.4 |
| ZINC | CLP-Metal | mg/kg | 4.0 | 38.5 |
| CLP METALS (FULL CLP 23 METALS), TCLP | | | | |
| Dilution Factor | | | | 2 |
| ALUMINUM | CLP-Metal | µg/L | 50.0 | 314 |
| ANTIMONY | CLP-Metal | µg/L | 6.0 | 6.0J |
| ARSENIC | CLP-Metal | µg/L | 10.0 | <20.0 |
| BARIUM | CLP-Metal | µg/L | 200 | 589 |
| BERYLLIUM | CLP-Metal | µg/L | 4.0 | <8.0 |
| CADMIUM | CLP-Metal | µg/L | 5.0 | 5.3J |
| CALCIUM | CLP-Metal | µg/L | 5000 | 330,000 |
| CHROMIUM | CLP-Metal | µg/L | 10.0 | 3.5J |
| COBALT | CLP-Metal | µg/L | 50.0 | 29.1J |
| COPPER | CLP-Metal | µg/L | 25.0 | 17.8J |
| IRON | CLP-Metal | µg/L | 100 | 217 |
| LEAD | CLP-Metal | µg/L | 3.0 | 10.3 |
| MAGNESIUM | CLP-Metal | µg/L | 5000 | 17,000 |
| MANGANESE | CLP-Metal | µg/L | 15.0 | 2,540 |
| Dilution Factor | | | | 1 |
| MERCURY | CLP-Metal | µg/L | 0.20 | 0.53 |
| Dilution Factor | | | | 2 |
| MOLYBDENUM | CLP-Metal | µg/L | 5.0 | <10.0 |
| NICKEL | CLP-Metal | µg/L | 40.0 | 58.0J |
| POTASSIUM | CLP-Metal | µg/L | 5000 | 14,700 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | CRDL (PQL) | Analysis Result 985-JDW-001A,B,C,D,E 01-06629-(5 to 7) |
|---|---|---|---|---|
| SELENIUM | CLP-Metal | µg/L | 5.0 | 12.5 |
| SILVER | CLP-Metal | µg/L | 10.0 | <20.0 |
| SODIUM | CLP-Metal | µg/L | 5000 | (c) |
| THALLIUM | CLP-Metal | µg/L | 5.0 | <10.0 |
| VANADIUM | CLP-Metal | µg/L | 50.0 | 0.98J |
| ZINC | CLP-Metal | µg/L | 20.0 | 104 |
| Dilution Factor | | | | 1 |
| **GASOLINE RANGE ORGANICS** | M8015V | mg/kg | 0.5 | <0.52 |
| Dilution Factor | | | | 10 |
| **DIESEL RANGE ORGANICS** | M8015E | mg/kg | 10 | 640D |
| **JP-5** | M8015E | mg/kg | 10 | <100 |
| **MOTOR OIL RANGE ORGANICS** | M8015E | mg/kg | 10 | 1,100M |
| **CLP VOA - LOW LEVEL** | | | | |
| Dilution Factor | | | | 1 |
| ACETONE | CLP-VOA | µg/kg | 10 | <10 |
| BENZENE | CLP-VOA | µg/kg | 10 | <10 |
| BROMODICHLOROMETHANE | CLP-VOA | µg/kg | 10 | <10 |
| BROMOFORM | CLP-VOA | µg/kg | 10 | <10 |
| BROMOMETHANE | CLP-VOA | µg/kg | 10 | <10 |
| 2-BUTANONE | CLP-VOA | µg/kg | 10 | <10 |
| CARBON DISULFIDE | CLP-VOA | µg/kg | 10 | <10 |
| CARBON TETRACHLORIDE | CLP-VOA | µg/kg | 10 | <10 |
| CHLOROBENZENE | CLP-VOA | µg/kg | 10 | <10 |
| DIBROMOCHLOROMETHANE | CLP-VOA | µg/kg | 10 | <10 |
| CHLOROETHANE | CLP-VOA | µg/kg | 10 | <10 |
| CHLOROFORM | CLP-VOA | µg/kg | 10 | <10 |
| CHLOROMETHANE | CLP-VOA | µg/kg | 10 | <10 |
| 1,1-DICHLOROETHANE | CLP-VOA | µg/kg | 10 | <10 |
| 1,2-DICHLOROETHANE | CLP-VOA | µg/kg | 10 | <10 |
| 1,1-DICHLOROETHENE | CLP-VOA | µg/kg | 10 | <10 |
| 1,2-DICHLOROETHENE (TOTAL) | CLP-VOA | µg/kg | 10 | <10 |
| 1,2-DICHLOROPROPANE | CLP-VOA | µg/kg | 10 | <10 |
| CIS-1,3-DICHLOROPROPENE | CLP-VOA | µg/kg | 10 | <10 |
| TRANS-1,3-DICHLOROPROPENE | CLP-VOA | µg/kg | 10 | <10 |
| ETHYLBENZENE | CLP-VOA | µg/kg | 10 | <10 |
| 2-HEXANONE | CLP-VOA | µg/kg | 10 | <10 |
| 4-METHYL-2-PENTANONE | CLP-VOA | µg/kg | 10 | <10 |
| METHYLENE CHLORIDE | CLP-VOA | µg/kg | 10 | 5J |
| STYRENE | CLP-VOA | µg/kg | 10 | <10 |
| 1,1,2,2-TETRACHLOROETHANE | CLP-VOA | µg/kg | 10 | <10 |
| TETRACHLOROETHENE | CLP-VOA | µg/kg | 10 | <10 |
| TOLUENE | CLP-VOA | µg/kg | 10 | 0.6J |
| 1,1,1-TRICHLOROETHANE | CLP-VOA | µg/kg | 10 | <10 |
| 1,1,2-TRICHLOROETHANE | CLP-VOA | µg/kg | 10 | <10 |
| TRICHLOROETHENE | CLP-VOA | µg/kg | 10 | <10 |
| VINYL CHLORIDE | CLP-VOA | µg/kg | 10 | <10 |
| XYLENE (TOTAL) | CLP-VOA | µg/kg | 10 | <10 |
| METHYL TERT BUTYL ETHER (d) | CLP-VOA | µg/kg | 25 | <26 |
| 1,2-DICHLOROBENZENE (d) | CLP-VOA | µg/kg | 10 | <10 |
| 1,3-DICHLOROBENZENE (d) | CLP-VOA | µg/kg | 10 | <10 |
| 1,4-DICHLOROBENZENE (d) | CLP-VOA | µg/kg | 10 | <10 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | CRDL (PQL) | Analysis Result 555-IDW-001A,B,C,D,E 01-06629-(3 to 7) |
|---|---|---|---|---|
| SEMI-VOC, 64 COMPOUNDS | | | | |
| Dilution Factor | | | | 4 |
| ACENAPHTHENE | SW8270C | µg/kg | 330 | <1400 |
| ACENAPHTHYLENE | SW8270C | µg/kg | 330 | <1400 |
| ANTHRACENE | SW8270C | µg/kg | 330 | <1400 |
| BENZO(A)ANTHRACENE | SW8270C | µg/kg | 330 | <1400 |
| BENZO(A)PYRENE | SW8270C | µg/kg | 62 | <260 |
| BENZO(B)FLUORANTHENE | SW8270C | µg/kg | 330 | <1400 |
| BENZO(G,H,I)PERYLENE | SW8270C | µg/kg | 330 | <1400 |
| BENZO(K)FLUORANTHENE | SW8270C | µg/kg | 330 | <1400 |
| BIS(2-CHLOROETHOXY)METHANE | SW8270C | µg/kg | 330 | <1400 |
| BIS(2-CHLOROETHYL)ETHER | SW8270C | µg/kg | 330 | <1400 |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | SW8270C | µg/kg | 330 | <1400 |
| BIS(2-ETHYLHEXYL)PHTHALATE | SW8270C | µg/kg | 210 | <870 |
| 4-BROMOPHENYL-PHENYLETHER | SW8270C | µg/kg | 330 | <1400 |
| BUTYLBENZYLPHTHALATE | SW8270C | µg/kg | 330 | <1400 |
| CARBAZOLE | SW8270C | µg/kg | 330 | <1400 |
| 4-CHLORO-3-METHYLPHENOL | SW8270C | µg/kg | 330 | <1400 |
| 4-CHLOROANILINE | SW8270C | µg/kg | 740 (δ) | <3100 |
| 2-CHLORONAPHTHALENE | SW8270C | µg/kg | 330 | <1400 |
| 2-CHLOROPHENOL | SW8270C | µg/kg | 330 | <1400 |
| 4-CHLOROPHENYL-PHENYLETHER | SW8270C | µg/kg | 330 | <1400 |
| CHRYSENE | SW8270C | µg/kg | 330 | <1400 |
| DI-N-BUTYLPHTHALATE | SW8270C | µg/kg | 330 | <1400 |
| DI-N-OCTYLPHTHALATE | SW8270C | µg/kg | 330 | <1400 |
| DIBENZ(A,H)ANTHRACENE | SW8270C | µg/kg | 62 | <260 |
| DIBENZOFURAN | SW8270C | µg/kg | 330 | <1400 |
| 1,2-DICHLOROBENZENE | SW8270C | µg/kg | 160 | <660 |
| 1,3-DICHLOROBENZENE | SW8270C | µg/kg | 160 | <660 |
| 1,4-DICHLOROBENZENE | SW8270C | µg/kg | 160 | <660 |
| 3,3'-DICHLOROBENZIDINE | SW8270C | µg/kg | 450 (δ) | <1900 |
| 2,4-DICHLOROPHENOL | SW8270C | µg/kg | 330 | <1400 |
| DIETHYLPHTHALATE | SW8270C | µg/kg | 330 | <1400 |
| DIMETHYLPHTHALATE | SW8270C | µg/kg | 330 | <1400 |
| 2,4-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | <1400 |
| 4,6-DINITRO-2-METHYLPHENOL | SW8270C | µg/kg | 800 | <3300 |
| 2,4-DINITROPHENOL | SW8270C | µg/kg | 800 | <3300 |
| 2,4-DINITROTOLUENE | SW8270C | µg/kg | 330 | <1400 |
| 2,6-DINITROTOLUENE | SW8270C | µg/kg | 330 | <1400 |
| FLUORANTHENE | SW8270C | µg/kg | 330 | <1400 |
| FLUORENE | SW8270C | µg/kg | 330 | <1400 |
| HEXACHLOROBENZENE | SW8270C | µg/kg | 300 | <1200 |
| HEXACHLOROBUTADIENE | SW8270C | µg/kg | 330 | <1400 |
| HEXACHLOROCYCLOPENTADIENE | SW8270C | µg/kg | 330 | <1400 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | CRDL (PQL) | Analysis Result 365-IDW-001A,B,C,D,E 01-06629-(3 to 7) |
|---|---|---|---|---|
| HEXACHLOROETHANE | SW8270C | µg/kg | 330 | < 1400 |
| INDENO(1,2,3-CD)PYRENE | SW8270C | µg/kg | 330 | < 1400 |
| ISOPHORONE | SW8270C | µg/kg | 330 | < 1400 |
| 2-METHYLNAPHTHALENE | SW8270C | µg/kg | 330 | < 1400 |
| 3/4-METHYLPHENOL | SW8270C | µg/kg | 330 | < 1400 |
| 2-METHYLPHENOL | SW8270C | µg/kg | 330 | < 1400 |
| NAPHTHALENE | SW8270C | µg/kg | 330 | < 1400 |
| 2-NITROANILINE | SW8270C | µg/kg | 800 | < 3300 |
| 3-NITROANILINE | SW8270C | µg/kg | 800 | < 3300 |
| 4-NITROANILINE | SW8270C | µg/kg | 800 | < 3300 |
| NITROBENZENE | SW8270C | µg/kg | 330 | < 1400 |
| 2-NITROPHENOL | SW8270C | µg/kg | 330 | < 1400 |
| 4-NITROPHENOL | SW8270C | µg/kg | 330 | < 1400 |
| N-NITROSO-DI-N-PROPYLAMINE | SW8270C | µg/kg | 330 | < 1400 |
| N-NITROSODIPHENYLAMINE | SW8270C | µg/kg | 330 | < 1400 |
| PENTACHLOROPHENOL | SW8270C | µg/kg | 800 | < 3300 |
| PHENANTHRENE | SW8270C | µg/kg | 330 | < 1400 |
| PHENOL | SW8270C | µg/kg | 330 | < 1400 |
| PYRENE | SW8270C | µg/kg | 330 | < 1400 |
| 1,2,4-TRICHLOROBENZENE | SW8270C | µg/kg | 330 | < 1400 |
| 2,4,5-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | < 1400 |
| 2,4,6-TRICHLOROPHENOL | SW8270C | µg/kg | 800 | < 3300 |
| ORGANOCHLORINE PESTICIDES | | | | |
| Dilution Factor | | | | 5 |
| ALDRIN | 8081A | µg/kg | 1.7 | < 8.8 |
| BETA-BHC | 8081A | µg/kg | 1.7 | < 8.8 |
| ALPHA-BHC | 8081A | µg/kg | 1.7 | < 8.8 |
| DELTA-BHC | 8081A | µg/kg | 1.7 | < 8.8 |
| GAMMA-BHC (LINDANE) | 8081A | µg/kg | 1.7 | < 8.8 |
| ALPHA-CHLORDANE | 8081A | µg/kg | 1.7 | < 8.8 |
| GAMMA-CHLORDANE | 8081A | µg/kg | 1.7 | < 8.8 |
| 4,4'-DDD | 8081A | µg/kg | 3.3 | < 17 |
| 4,4'-DDE | 8081A | µg/kg | 3.3 | < 17 |
| 4,4'-DDT | 8081A | µg/kg | 3.3 | < 17 |
| DIELDRIN | 8081A | µg/kg | 3.3 | < 17 |
| ENDOSULFAN I | 8081A | µg/kg | 1.7 | < 8.8 |
| ENDOSULFAN II | 8081A | µg/kg | 3.3 | < 17 |
| ENDOSULFAN SULFATE | 8081A | µg/kg | 3.3 | < 17 |
| ENDRIN | 8081A | µg/kg | 3.3 | < 17 |
| ENDRIN ALDEHYDE | 8081A | µg/kg | 3.3 | < 17 |
| ENDRIN KETONE | 8081A | µg/kg | 3.3 | < 17 |
| HEPTACHLOR | 8081A | µg/kg | 1.7 | < 8.8 |
| HEPTACHLOR EPOXIDE | 8081A | µg/kg | 1.7 | < 8.8 |
| METHOXYCHLOR | 8081A | µg/kg | 17 | < 88 |
| TOXAPHENE | 8081A | µg/kg | 170 | < 880 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | CRDL (PQL) | Analysis Result 385-IDW-001A,B,C,D,E 01-06629-(3 to 7) |
|---|---|---|---|---|
| PCBS | | | | |
| Dilution Factor | | | | 1 |
| AROCLOR-1016 (PCB-1016) | 8082 | µg/kg | 33 | <34 |
| AROCLOR-1221 (PCB-1221) | 8082 | µg/kg | 67 | <68 |
| AROCLOR-1232 (PCB-1232) | 8082 | µg/kg | 33 | <34 |
| AROCLOR-1242 (PCB-1242) | 8082 | µg/kg | 33 | <34 |
| AROCLOR-1248 (PCB-1248) | 8082 | µg/kg | 33 | <34 |
| AROCLOR-1254 (PCB-1254) | 8082 | µg/kg | 33 | <34 |
| AROCLOR-1260 (PCB-1260) | 8082 | µg/kg | 33 | <34 |

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-". Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0
(a) Unknown mixture in Diesel range.
(b) MDL reported.
(c) Sample also contains about 152 µg/L of F-113
(d) Additional compounds per Client's request.
(e) Not appropriate to report as TCLP leaching solution contained Sodium Acetate

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

PA #CADOO4778742
AL-T-150858
AZ, WASTE HAULERS REG. # 2041
a. State Contractors Lic. #464120

# STURGEON & SON, INC.
## TRANSPORTATION SERVICES

3511 Gilmore Avenue
Bakersfield, California 93308
24 HOUR PHONE: (805) 322-4408
FAX NUMBER: (805) 322-7574

Roll-Off Trucks & Bins — Vans
Vacuum Trucks — Highbeds
End Dumps — Lowbeds

Date: 2-12-01

**TICKET # 27721**

CHARGE TO: ON X

JOB #/AUTHORIZATION # | P.O. #

PICKUP AT: RICHMOND CA, BERKELEY CA

DELIVER TO: ALAMEDA POINT ALAMEDA CA

**SERVICE PERFORMED:**

PICK-UP PRESSURE WASHER AND HOSES DELIVER ALAMEDA POINT WASX

PICK UP TANK 942878 WTX 312 JOHN CARTER

EXPLAIN DELAYS

LOADING RETURN EQUIPMENT TO BERKELEY LEAVE BACKHOE TO RICHMOND

UNLOADING

**INFORMATION:**

ENDING MILEAGE

STARTING MILEAGE

TOTAL MILEAGE

BIN NUMBERS DELIVERED

BIN NUMBERS PICKED UP

NUMBER OF LINERS USED

MANIFEST NUMBER

WEIGHT TICKET NUMBER

DRIVER: DENNIS TSUKUMOTO | TRUCK # 142

**START/FROM TO**

| | | | |
|---|---|---|---|
| LOAD ~~BINS YD~~. | 6:30 | 6:50 | AM PM |
| TRAVEL-OUT | 7:15 | 7:45 | AM PM |
| LOADING | 11:15 | 11:45 | AM PM |
| TRAVEL-JOB | | | AM PM |
| UNLOADING | 11:45 | 12:15 | AM PM |
| TRAVEL-IN | | | AM PM |
| Total Hours | | | |
| Deductions Meals, etc. | | Premium Time Hrs. | |
| Net Hours | 6 3/4 | | |

**OFFICE USE ONLY**

| RATE: | AMOUNT | TOTAL |
|---|---|---|
| TONNAGE | | |
| HOURLY | | |
| QUOTE | | |
| DEMURRAGE / PRESSURE WASHER | | |
| LINERS 2 LINER HOSE | | |
| OTHER | | |
| **TOTAL** | | |

If necessary to institute legal action to enforce collection of the amount under this invoice, buyer agrees to pay all necessary costs and attorney's fees.

Subject to terms and conditions on back

William Wood 12/12/01
Above items or work received by

Billing agreed to by

Job - evaluation (by customer) Good ( ) Fair ( ) Poor ( )

CUSTOMER COPY - FIELD