

From Page No. \_\_\_\_\_

6-1-90

ISS / SURFACE MONITORING

(01)

TIME	WIND	SP (mph)	OVA (ppm)	
0 0947	2.3		1.0	flow = 0.3 Lpm
1 0948	4.3		1.0	
2 0949	∅		0.8	
3 0950	0.8		1.2	
4 0951	3.1		1.6	
5 0952	4.1		1.5	
6 0953	3.2		1.4	
7 0954	1.4		1.2	
8 0955	1.8		1.0	
9 0956	3.6		1.0	
10 0957	∅		1.0	
11 0958	1.0		1.0	
12 0959	0.2		1.0	flow = 0.3 Lpm
13 1000	0.4		1.0	
14 1001	∅		0.9	
15 1002	0.2		0.8	
16 1003	∅		0.8	
17 1004	0.1		0.8	
18 1005	∅		0.9	
19 1006	∅		1.0	
20 1007	∅		0.9	
21 1008	1.5		0.9	
22 1009	2.3		0.8	
23 1010	0.8		0.9	
24 1011	2.9		1.0	
25 1012	4.1		1.0	flow = 0.3 Lpm

Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	

To Page N

From Page No. \_\_\_\_\_

6-1-90

- 0815 D. V. Duen, B. Hamilton on site to walk ISS, sample 46 wells.
- 0830 check met station. winds calm (1-2 mph) but picking up.  
calibrating OVA #3 to zero air, 50 ppm.
- 0845 Batteries to wind sensor dead. Will have to head off site to purchase new batteries.
- 0920 Back on site wind sensor working well.
- 0945 Begin walking ISS / surface monitoring. wind 2-3 mph. Background reading 1 ppm. B. Hamilton collecting ISS sample. D. V. Duen doing surface monitoring / wind check.
- 1015 surface walk completed winds below 5 mph for entire walk. No OVA reading  $\approx$  1.5 ppm.  
Tedlar bag #62
- 1030 setting up to sample LG-Ø3.  
Problem with sampler. No flow to ambient / exhaust.  
called office. spoke w/ D. Christopher @ sampler. He suggested trying a pump from an ambient air sampler and adjusting overflow valve (also fitting).

To Page No. \_\_\_\_\_

Witnessed &amp; Understood by me,

Date

Invented by

Date

Recorded by

Page No. \_\_\_\_\_

6-1-90 (p. 2)

1145. Completely tore down sampler after dismantling flow control valve, the sampler appears to be working properly.

1150 Cannot find sampling cap. Suspect it is still at office. Breaking down equipment and heading to FED-EX to ship 155 sample.

1200 Off site.

(21)

To Page No. \_\_\_\_\_

Read & Understood by me,

Date

Invented by

Date

From Page No. \_\_\_\_\_

6-4-90

1530 D. Van Dusen H. Contreras on site to  
sample LG probes

Setting up at LG-03

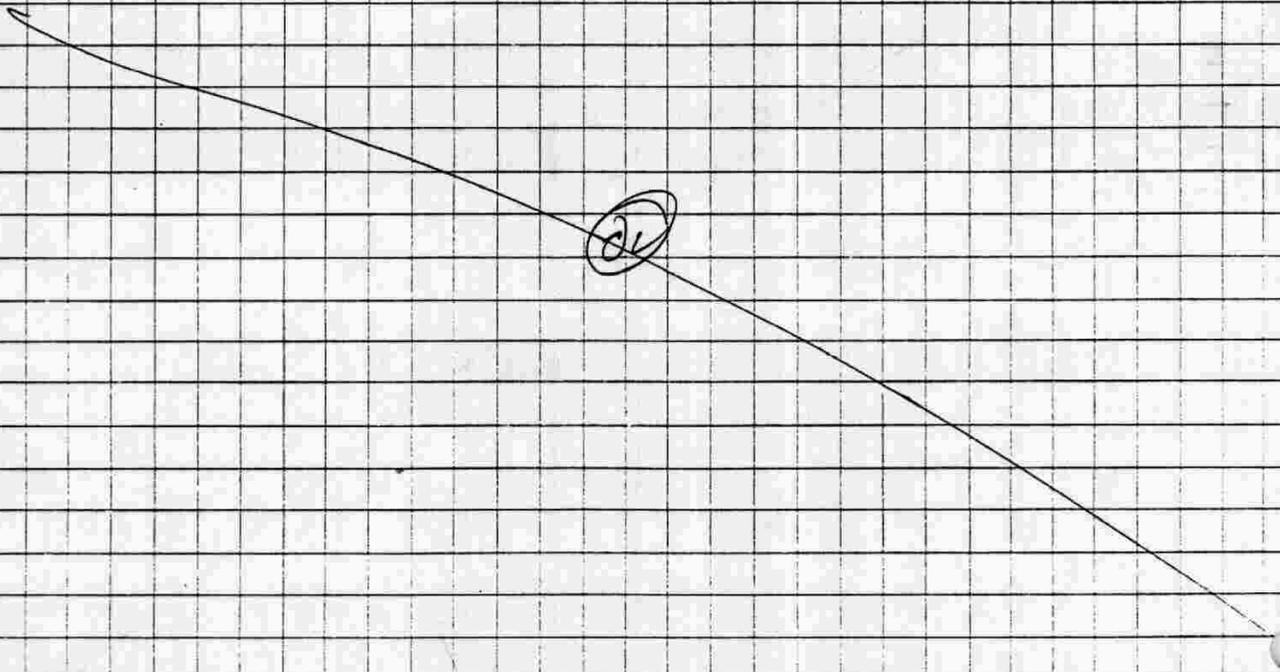
1540 Purging 10 min on ambient air

1550 Purge 10 min zero air

1612 Begin collecting sample

1620 Sample CO-LG-03-02 collected  
can # AV076, 7 1/2 PSI

1645 off site.



To Page No. \_\_\_\_\_

Witnessed & Understood by me,

Date

Invented by

Date

\_\_\_\_\_

Page No. \_\_\_\_\_

6-1-90 (p.2)

1145. Completely tore down sampler after dismounting flow control valve, the sampler appears to be working properly.

150 Cannot find sampling cap. Suspect it is still at office. Breaking down equipment and heading to FED-EX to ship 155 sample.

1200 Off site.

(21)

To Page No. \_\_\_\_\_

Discussed & Understood by me,

Date

Invented by

Date

From Page No. \_\_\_\_\_

6-4-90

1530 D. Van Dusen H. Contreras on site to  
sample LG probes

setting up at LG-03

1540 Purging 10 min on ambient air

1550 Purge 10 min zero air

1612 Begin collecting sample

1620 Sample CO-LG-03-02 collected  
can # AV076, 7 1/2 PSI

1645 off site.

(CL)

To Page No. \_\_\_\_\_

Witnessed &amp; Understood by me,

Date

Invented by

Date

LG

Project No. \_\_\_\_\_

Book No. \_\_\_\_\_

49

Page No. \_\_\_\_\_

6-5-90

0805 D.F. Dusa, H. Contreras on site to sample LG probes.

Sampler purged 3 hrs on ambient.

Purge 10 min zero air

0820 Begin sampling LG-04

0830 CO-LG-04-02 collected  
can # AV061, 7 1/2 PSI

0845 Off site

0900 Back on site. Setting up at LG-05

Sampler purged 1 1/2 hr ambient air. FID = ND

0910 Purge on zero air

0920 Begin sampling LG-05

1045 Off site. Heading to FED-EX

All sampling complete at Communications Station landfill.

1230 NOTE: Blank not collected previously. Will collect after OR-MG-01. Standard Deviation

1245 CO-LG-00-02  
can # AV072, 7 1/2 PSI

To Page No. \_\_\_\_\_

Read & Understood by me,

Date

Invented by

Date

# Communications Station

Project No. 50233

Book No. \_\_\_\_\_

51

Form Page No. 6/22/90

1030 AGC & NC on site @ communications station land fill.  
preparing to sample probe LG-01. Resampling.

1035 Sampled LG-01 on Communications.

sampler	can	sample Id	collection time.	PSI
AV02	AV086	Co-LG-R1-02	5 min. 50 sec.	7.5

sampler	can	sample Id	collection Time	PSI
AV02	AV123	Co-LG-R2-02	6 min.	7.5

To Page No. \_\_\_\_\_

Witnessed & Understood by me,

Date

Invented by AGC

Date

6/22/90

**Appendix D**

**LABORATORY DATA REPORTS**











## ATTACHMENT A - REPORT SHEET



## EPA Method TO-14 GC/MS Analysis

-----

Client: AeroVironment	Sample Date: 5-24-90
Site: CO-IA-C2-04	Date Anal: 5-25-90
Lab #: 00557	Analyst: Vivian Longacre
Can #: 131	

-----

CAS Number	Compound	MDL ppbv	Concentration ppbv
75-01-4	Vinyl Chloride	2.00	not detected
75-09-2	Dichloromethane	1.00	4.3
67-66-3	Chloroform	0.80	not detected
71-55-6	1,1,1-Trichloroethane	0.50	2.7
107-06-2	1,2-Dichloroethane	0.20	not detected
71-43-2	Benzene	2.00	not detected
56-23-5	Carbon Tetrachloride	0.20	not detected
79-01-6	Trichloroethene	0.60	not detected
106-93-4	1,2-Dibromoethane	0.50	not detected
127-18-4	Tetrachloroethene	0.20	not detected

---









## ATTACHMENT A - REPORT SHEET



## EPA Method TO-14 GC/MS Analysis

-----

Client: AeroVironment	Sample Date: 5-24-90
Site: CO-IA-D2-08	Date Anal: 5-25-90
Lab #: 00554	Analyst: Vivian Longacre
Can #: 130	

-----

CAS Number	Compound	MDL ppbv	Concentration ppbv
75-01-4	Vinyl Chloride	2.00	not detected
75-09-2	Dichloromethane	1.00	1.2
67-66-3	Chloroform	0.80	not detected
71-55-6	1,1,1-Trichloroethane	0.50	0.51
107-06-2	1,2-Dichloroethane	0.20	not detected
71-43-2	Benzene	2.00	not detected
56-23-5	Carbon Tetrachloride	0.20	not detected
79-01-6	Trichloroethene	0.60	not detected
106-93-4	1,2-Dibromoethane	0.50	not detected
127-18-4	Tetrachloroethene	0.20	not detected

---

## ATTACHMENT A - REPORT SHEET



## EPA Method TO-14 GC/MS Analysis

-----

Client: AeroVironment	Sample Date: 5-24-90
Site: CO-IA-D2-01	Date Anal: 5-25-90
Lab #: 00553	Analyst: Vivian Longacre
Can #: 29	

-----

CAS Number	Compound	MDL ppbv	Concentration ppbv
75-01-4	Vinyl Chloride	2.00	not detected
75-09-2	Dichloromethane	1.00	not detected
67-66-3	Chloroform	0.80	not detected
71-55-6	1,1,1-Trichloroethane	0.50	0.69
107-06-2	1,2-Dichloroethane	0.20	not detected
71-43-2	Benzene	2.00	not detected
56-23-5	Carbon Tetrachloride	0.20	not detected
79-01-6	Trichloroethene	0.60	not detected
106-93-4	1,2-Dibromoethane	0.50	not detected
127-18-4	Tetrachloroethene	0.20	not detected

---



ATTACHMENT A - REPORT SHEET

EPA Method TO-14 GC/MS Analysis

Client: AeroVironment                      Sample Date: 5-25-90  
Site: CO-IA-D3-01                            Date Anal: 5-30-90  
Lab #: 00571                                   Analyst: Vivian Longacre  
Can #: 26

CAS Number	Compound	MDL ppbv	Concentration ppbv
75-01-4	Vinyl Chloride	2.00	not detected
75-09-2	Dichloromethane	1.00	1.2
67-66-3	Chloroform	0.80	not detected
71-55-6	1,1,1-Trichloroethane	0.50	0.72
107-06-2	1,2-Dichloroethane	0.20	not detected
71-43-2	Benzene	2.00	not detected
56-23-5	Carbon Tetrachloride	0.20	not detected
79-01-6	Trichloroethene	0.60	not detected
106-93-4	1,2-Dibromoethane	0.50	not detected
127-18-4	Tetrachloroethene	0.20	not detected







ATTACHMENT A - REPORT SHEET

EPA Method TO-14 GC/MS Analysis

-----  
Client: AeroVironment                      Sample Date: 5-25-90  
Site: CO-LG-01-02                          Date Anal: 5-30-90  
Lab #: 00575                                 Analyst: Vivian Longacre  
Can #: 49  
-----

CAS Number	Compound	MDL ppbv	Concentration ppbv
75-01-4	Vinyl Chloride	500	not detected
75-09-2	Dichloromethane	60	76
67-66-3	Chloroform	2	not detected
71-55-6	1,1,1-Trichloroethane	10	not detected
107-06-2	1,2-Dichloroethane	20	not detected
71-43-2	Benzene	5	not detected
56-23-5	Carbon Tetrachloride	500	not detected
79-01-6	Trichloroethene	10	not detected
106-93-4	1,2-Dibromoethane	1	not detected
127-18-4	Tetrachloroethene	10	not detected

---













ATTACHMENT A - REPORT SHEET

EPA Method TO-14 GC/MS Analysis

Client: AeroVironment                      Sample Date: 6-5-90  
Site: CO-LG-05-02                      Date Anal: 6-7-90  
Lab #: 00624                      Analyst: Vivian Longacre  
Can #: 69

CAS Number	Compound	MDL ppbv	Concentration ppbv
75-01-4	Vinyl Chloride	500	not detected
75-09-2	Dichloromethane	60	160
67-66-3	Chloroform	2	not detected
71-55-6	1,1,1-Trichloroethane	10	not detected
107-06-2	1,2-Dichloroethane	20	not detected
71-43-2	Benzene	5	not detected
56-23-5	Carbon Tetrachloride	500	not detected
79-01-6	Trichloroethene	10	not detected
106-93-4	1,2-Dibromoethane	1	not detected
127-18-4	Tetrachloroethene	10	not detected

FIXED GAS ANALYSIS

Permanent Gases By GC/TCD

Component	Sample Concentration Percent by Volume
Hydrogen	0.00
Oxygen	21.44
Nitrogen	72.05
Methane	0.00
Carbon Monoxide	0.00
Carbon Dioxide	1.07
Total	94.6









Total Organic Compound

-----  
Client: AeroVironment  
Analyst: Vivian Longacre

Ref#: CO-MG-03-02  
Lab #: 00560  
Can #: 91  
Date Sampled: 5-24-90  
Date Analyzed: 5-26-90  
-----

Methane ppmv	Non-Methane ppmv	Total Organic Carbon ppmv
< 1	1.6	1.6







Chain of Custody Record

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

IN 409

Project Name: EL TORO AIR SWAT Date: 5-27-90  
 Sampling Location: COMMUNICATIONS STATIONS Time: 1100  
 Sampling Team: DW/NC

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure, Final Condition <sup>1</sup> Lab	Field	Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	CO-1A-DI-01	A008		5 PSI	A1-AIR	5-23-90/0400	5-28-90 0400
	CO-1A-DI-08	E051		7 PSI	A1-AIR	5-23-90/0400	5-28-90 0400
	CO-1A-DI-09	AV071		6K PSI	A1-AIR	5-27-90/0830	5-28-90 0830
	CO-1A-DI-03	E055		6 PSI	A1-AIR	5-23-90/0825	5-28-90 0825
	CO-1A-CI-09	E043		6 PSI	A1-AIR	5-23-90/0825	5-28-90 0825

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Relinquished by: [Signature] Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: FED-EX

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup>F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 E = < 1/4 full but some sample, N = no sample

### Chain of Custody Record

N 368

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

Project Name: EL TORO AIR SWAT Date: 5-24-90  
 Sampling Location: COMMUNICATION Time: 1000  
 Sampling Team: DV/NC

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure, Final Condition <sup>1</sup> Lab Field	Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	CD-1A-D2-01	AV029	3 PSI	A1-AIR	5-24-90/0500	5-29-90/0500
	CD-1A-D2-02	AV130	6 1/2 PSI	A1-AIR	5-24-90/0500	5-29-90/0500
	CD-1A-D2-09	AV104	5 1/2 PSI	A1-AIR	5-24-90/0820	5-29-90/0820
	CD-1A-D2-03	E045	4 1/2 PSI	A1-AIR	5-24-90/0815	5-29-90/0815

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Relinquished by: [Signature] Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: FED-EX

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup> F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 full, E = < 1/4 full but some sample, N = no sample

Chain of Custody Record

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

413

Project Name: EL TORO AIR SWAT Date: 5-24-90  
 Sampling Location: COMMUNICATIONS STATION Time: 1000  
 Sampling Team: DV/NC

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure, Final Condition <sup>1</sup>		Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
			Lab	Field			
	CO-1A-C2-04	AV131		6 PSI	A1-AIR	5-24-90/0815	5-29-90/0815
	CO-M6-01-02	AV114		7 1/2 PSI	TOC	5-24-90/1200	5-29-90/1200
	CO-M6-02-02	AV061		7 1/2 PSI	TOC	5-24-90/1230	5-29-90/1230
	CO-M6-03-02	AV091		7 1/2 PSI	TOC	5-24-90/1300	5-29-90/1300

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Relinquished by: [Signature] Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup> F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 E = < 1/4 full but some sample, N = no sample

Chain of Custody Record

N 414

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

Project Name: EL TORO AIR SWAT Date: 5-24-90  
 Sampling Location: COMMUNICATIONS Time: 1300  
 Sampling Team: DV

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure, Final Condition <sup>1</sup> Lab Field	Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	CO-M6-04-02	AV069	7 1/2 PSI	TOC	5-24-90 / 1330	5-29-90 / 1330
	CO-M6-05-02	AV089	7 1/2 PSI	TOC	5-24-90 / 1400	5-29-90 / 1400
	CO-M6-06-02	AV024	7 1/2 PSI	TOC	5-24-90 / 1430	5-29-90 / 1430

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Relinquished by: *D. F. Quinn* Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: FED-EX

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup>F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 full, E = < 1/4 full but some sample, N = no sample

Chain of Custody Record

N: **410**

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

Project Name: EL TOPE AIR SWAT Date: 5-25-90  
 Sampling Location: COMMUNICATIONS STATION Time: 1200  
 Sampling Team: DV/NC

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure, Final Condition <sup>1</sup> Lab Field	Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	CO-1A-D3-01	E 26	4 PSI	A1-AIR	5-25-90 / 0500	5-30-90 / 0500
	CO-1A-D3-08	AV128	8 PSI	A1-AIR	5-25-90 / 0500	5-30-90 / 0500
	CO-1A-D3-09	AV057	5 PSI	A1-AIR	5-25-90 / 0900	5-30-90 / 0900
	CO-1A-D3-03	AV129	5 PSI	A1-AIR	5-25-90 / 0850	5-30-90 / 0850

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Relinquished by: [Signature] Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: FED. EX

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup>F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 full, E = < 1/4 full but some sample, N = no sample

Chain of Custody Record

N 416

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

Project Name: EL TORO AIR SWAT Date: 5-25-90  
 Sampling Location: COMMUNICATIONS STATION Time: 1000  
 Sampling Team: DV/NC

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure, Final Condition <sup>1</sup> Lab Field	Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	CO-LG-01-02	AV049	7 1/2 PSI	A1-GAS, PG	5-25-90 / 0720	5-30-90 / 0720
	CO-LG-02-02	AV 122	9 PSI	A1-GAS, PG	5-25-90 / 1410	5-30-90 / 1410

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Relinquished by: Michael Conroy Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: FED-EX

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup> F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 full, E = < 1/4 full but some sample, N = no sample

Chain of Custody Record

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

417

Project Name: EL TORO AIR SWAT Date: 6-1-2015  
 Sampling Location: COMMUNICATIONS Time: 1700  
 Sampling Team: DV/BM

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure, Final Condition <sup>1</sup> Lab Field	Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	CO-15-01-03	66	FULL	TDC	6-1-2015	6-15-2015

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Relinquished by: [Signature] Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: FED-EX

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup>F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 full, < = 1/4 full but some sample, N = no sample

Chain of Custody Record

495

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

Project Name: EL TORO AIR SWAT Date: 6-5-90  
 Sampling Location: COMMUNICATIONS Time: 1100  
 Sampling Team: DV/NC

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure, Final Condition <sup>1</sup> Lab	Field	Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	CO-16-03-02	AV076		7 1/2 PSI	AI-GAS, PG	6-4-90 / 1630	6-9-90 / 1630
	CO-16-04-02	AV061		7 1/2 PSI	AI-GAS, PG	6-5-90 / 0830	6-10-90 / 0830
	CO-16-05-02	AV069		7 1/2 PSI	AI-GAS, PG	6-5-90 / 1030	6-10-90 / 1030

Comments: CLEAN ONLY : F062  
E042  
AV077

Relinquished by: *D. V. Quasa* Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: FED-EX

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup> F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 full, E = < 1/4 full but some sample, N = no sample

### Chain of Custody Record

412

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

Project Name: IL 70RD - AIR SW AT Date: 6-5-90  
 Sampling Location: COMM / DRUGS Time: 12:00  
 Sampling Team: DV/NC

Lab Identification Number	AeroVironment Sample Reference Number	Canister/Bag Number	Final Pressure Lab	Final Condition <sup>1</sup> Field	Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	OR-M6-01-02	AV096		7 1/2 PSI	TOC	6-5-90 / 1215	6-10-90 / 1215
	CO-16-00-02	AV076		7 1/2 PSI	AIR-GAS	6-5-90 / 1245	6-10-90 / 1245

Comments: CLEAN ONLY: AV103  
AV089

Relinquished by: [Signature] Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: FED-EX

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_

Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup>F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2, E = < 1/4 full but some sample, N = no sample

Chain of Custody Record

AeroVironment Inc.  
825 Myrtle Avenue  
Monrovia, CA 91016  
(818) 357-9983

Environmental Analytical Services  
170 / C Granada  
San Luis Obispo, CA 93401  
(805) 541-3666

Project Name: EI Toro Air SWATs Date: 6/22/90  
 Sampling Location: Communication & Magazine Road Time: 1500  
 Sampling Team: AGC & NC

Lab Identification Number	AeroVironment		Final Pressure, Final Condition <sup>1</sup>		Analysis Required	Sample Collection (Month/Day/Time)	Sample Expiration (Month/Day/Time)
	Sample Reference Number	Canister/Bag Number	Lab	Field			
	CO-LG-R1-02	AV103		7.5	Algas, PG	6/22 1100	6/27 1100
	CO-LG-R2-02	AV086		7.5	Algas, PG	6/22 1140	6/27 1140
	MR-LG-R1-02	AV127		7.5	Algas, PG	6/22 1945	6/27 1945
	MR-LG-R2-02	AV024		7.5	Algas, PG	6/22 0700	6/27 0700

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Relinquished by:  Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Laboratory Sample Custodian: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Comments: \_\_\_\_\_

<sup>1</sup>F = 1/2 full to full, O = overfull (bulging), L = 1/4 to 1/2 full, E = < 1/4 full but some sample, N = no sample

**Appendix E**

**SCREENING QUESTIONNAIRE**



UNITED STATES MARINE CORPS  
MARINE CORPS AIR STATION  
EL TORO (SANTA ANA) CALIFORNIA 92709

OTHER 4 SITES 2E

IN REPLY REFER TO

6280  
IJG.30F3

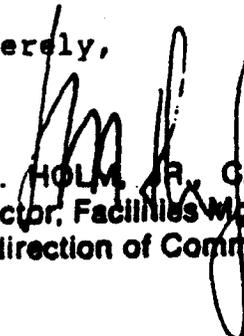
13 NOV 1986

South Coast Air Quality Management District  
9150 Flair Drive  
El Monte, CA 91731

Dear Sir:

As requested by your letters of 16 October 1986, we are submitting the questionnaires for the inactive solid waste disposal sites located at the Marine Corps Air Station El Toro and the Marine Corps Air Station Tustin.

Sincerely,

  
S. R. HOLM, JR., CAPT, CEC, USN  
Director, Facilities Mgmt. Dept.  
By direction of Commanding General

Encl:

- (1) Questionnaire for Inactive Landfills at MCAS El Toro
- (2) Questionnaire for Inactive Landfills at MCAS Tustin

STATE OF CALIFORNIA  
AIR RESOURCES BOARD

SCREENING QUESTIONNAIRE FOR INACTIVE SOLID WASTE DISPOSAL SITES  
Health and Safety Code Section 41805.5

**SITE OWNERSHIP**

Site name MARINE CORPS AIR STATION EL TORO

Site location ORANGE COUNTY

Site address MARINE CORPS AIR STATION, EL TORO  
SANTA ANA, CA 92709

Nearest Cross Streets TRABUCO AND SAND CANYON

Current site owner FEDERAL GOVERNMENT

Street address N/A

Mailing address MCAS EL TORO  
FACILITIES MANAGEMENT DEPT, CODE 1JG  
SANTA ANA, CA 92709

Contact Person BEVERLY VAN CLEEF Telephone Number (714) 651-2821

Previous site owners N/A

Provide the name and mailing address of all the previous site owners with the most recent owner first. (Attach additional pages if necessary.)

Owner N/A

Owner

Mailing Address

Mailing Address

Dates

Dates

Owner

Owner

Mailing Address

Mailing Address

Dates

Dates

Company performing site maintenance

Mailing address N/A

Contact person

Telephone number

**SITE HISTORY** See Attachment A

Date site started receiving waste:      Date Site stopped receiving waste:

Percent of site filled by:

January 1, 1960

January 1, 1970

January 1, 1980

January 1, 1984

Was the waste received by this site ever burned on a routine basis?    YES    NO

If yes, provide the following:

Date site started burning on a routine basis:

Date site stopped burning on a routine basis:

Has landfill gas migration ever been detected off site?    YES    NO

If yes, describe the event(s) in detail including date(s). (Attach additional pages if necessary.)

Have landfill gas odors ever been detected off site? YES  NO

If yes, describe the event(s) in detail including date(s). (Attach additional sheets if necessary.)

Has any landfill gas, ambient air, or gas migration testing ever been conducted at the site? YES  NO

If yes, summarize the testing and the results including date(s). (Attach additional sheets if necessary.)

Has this site ever been subject to any enforcement action by any Federal, state, or local agency as a result of underground gas migration or gaseous emissions to the atmosphere?

YES  NO

If yes, summarize the enforcement action(s) and reason(s) including date(s). (Attach additional sheets if necessary.)

**SITE DESCRIPTION** See Attachment B

Type of fill (Circle appropriate line)

Canyon Pit  
Area (Trench) Other-Describe

Provide estimate for:

Total Site Acreage Waste Disposal Area Acreage  
Volume of Waste (cubic yards) Quantity of Waste (tons)  
Minimum Depth of Waste (feet) Maximum Depth of Waste (feet)  
Average Depth of Waste (feet)  
Average Thickness Of Existing Top Cover (feet)

Does This Site Have A Liner? YES NO

If Yes, Describe:

Type of Cover Material

Provide a map to scale showing the boundaries of the total site and the waste disposal area.

See Attachment C

Identify all existing land uses on this site. (Circle appropriate item(s)).

Single family residential Hotel  
Multi family residential Park  
Commercial Undeveloped Communication Station Landfill  
Perimeter Road landfill and  
Magazine Road landfill  
Industrial Other (specify) Flight Simulator Bldg located  
on "original landfill site."  
Hospital  
School

For any undeveloped areas of this site, what land uses are currently proposed? (Circle appropriate item(s).)

Single family residential	Hotel	-
Multi family residential	Park	
Commercial		
Industrial	Other (specify)	
Hospital		
School	NONE	

**WASTE DESCRIPTION**

Estimate of Solid Waste Received (Total of entries for residential, commercial, industrial, demolition, and other should add up to 100%.)

33 % Residential 33%      % Commercial  
 34 % Industrial 22%      33% Demolition  
 % Other

Describe material under "other" and give its percentage.

Material	Percentage
----------	------------

Were liquids ever accepted at this site?  YES  NO

If yes, describe all liquids received, their corresponding volumes and the disposal methods employed such as injection, evaporation ponds, containers, codisposal, etc. (Attach additional sheets if necessary.)

Liquid	Gallons	Disposal method
SOLVENTS	UNKNOWN	UNKNOWN
PAINTS	"	"
OILY WASTES	"	"
KITCHEN WASTE	"	"

Were hazardous wastes in greater than household amounts ever accepted at this site?

YES NO

If yes, describe all hazardous wastes received and the corresponding volumes. (Attach additional sheets if necessary.)

Hazardous Waste

Volume

Waste types and quantities are unknown.

**SURROUNDING LAND USE**

See Attachment D

Give the distance in miles (to the nearest 0.01 mile) to the nearest:

Occupied building

Describe the Building and Use

Residential Area

School

Hospital

Park

Shopping Center

Business

Public Thoroughfare

Provide an aerial photograph or topographic map showing the surrounding area within two miles of the solid waste disposal site's perimeter. The photograph or map must identify all land uses in the area and highlight areas of high population such as housing, schools, restaurants, and shopping centers. For areas that are currently undeveloped, the proposed land uses must be shown.

See Attachment E

What is the population within two (2) miles of the perimeter of the site? Indicate the source of the information and the date of the data. (Possible sources include the county planning agency and the 1980 Federal Decennial Census)

Population Unknown Source

-Date

### ADDITIONAL INFORMATION

Attach a copy of any waste discharge permits under which the site operated.

Please provide any comments or additional information which you feel will assist in evaluating your site.

### PERSON COMPLETING THIS FORM

Signature *Beverly Van Cleef* 11/12/86

Printed Name Beverly Van Cleef

Title Environmental Engineer

Company Name MCAS EL TORO

Date 11/10/86

Address FACILITIES MANAGEMENT DEPT,  
CODE 1JG

Phone (714) 651-2821

City, State, ZIP  
SANTA ANA, CA. 92709

OPTIONAL QUESTIONS

**LANDFILL GAS COLLECTION SYSTEM**

Is a landfill gas collection system installed? YES  NO

If yes, provide the following information:

Date system installation completed                      Date system started operating

Is the system currently operating? YES NO

If no, explain why.

Percent of time system is on line

Name of company operating the system

Mailing address

Contact Person

Title                                      Telephone number

APCD or AQMD application and permit numbers:

Application number

Permit number

System Design (Circle applicable items)

Vertical wells                                      Horizontal Collection Trenches

Perimeter migration control system                      Interior migration control system

Gas recovery system, interior collection only

Gas collection system capacity in CFM

Disposition of collected landfill gas (Circle applicable items.)

Vented to Atmosphere                      Flared  
Sold as Fuel                                      Used as Fuel on Site

ATTACHMENT A

SITE HISTORY

1. MAGAZINE ROAD LANDFILL

*Site 2*

DATE SITE STARTED RECEIVING WASTE LATE 1960'S

DATE SITES STOPPED RECEIVING WASTE 1990

PERCENT OF SITE FILLED BY:

JANUARY 1, 1960: 0

JANUARY 1, 1970: UNKNOWN

JANUARY 1, 1980: 100%

JANUARY 1, 1984: --

WAS THE WASTE RECEIVED BY THIS SITE EVER BURNED ON A ROUTINE BASIS? NO

IF YES, PROVIDE THE FOLLOWING: N/A

DATE SITE STARTED BURNING ON A ROUTINE BASIS: N/A

DATE SITE STOPPED BURNING ON A ROUTINE BASIS: N/A

HAS LANDFILL GAS MIGRATION EVER BEEN DETECTED OFF SITE? NO.

2. ORIGINAL LANDFILL

DATE SITE STARTED RECEIVING WASTE: 1943

*Site 3*

DATE SITES STOPPED RECEIVING WASTE: 1955

PERCENT OF SITE FILLED BY:

JANUARY 1, 1960: 100%

JANUARY 1, 1970: --

JANUARY 1, 1980: --

JANUARY 1, 1984: --

WAS THE WASTE RECEIVED BY THIS SITE EVER BURNED ON A ROUTINE BASIS? YES

IF YES, PROVIDE THE FOLLOWING:

DATE SITE STARTED BURNING ON A ROUTINE BASIS: 1943

DATE SITE STOPPED BURNING ON A ROUTINE BASIS: 1955

HAS LANDFILL GAS MIGRATION EVER BEEN DETECTED OFF SITE? NO.

3. PERIMETER ROAD LANDFILL

DATE SITE STARTED RECEIVING WASTE: 1955

*Site 5*

DATE SITES STOPPED RECEIVING WASTE: LATE 1960'S

PERCENT OF SITE FILLED BY:

JANUARY 1, 1960: 100%

JANUARY 1, 1970: --

JANUARY 1, 1980: --

JANUARY 1, 1984: --

WAS THE WASTE RECEIVED BY THIS SITE EVER BURNED ON A ROUTINE BASIS? YES

IF YES, PROVIDE THE FOLLOWING.

DATE SITE STARTED BURNING ON A ROUTINE BASIS. 1955

DATE SITE STOPPED BURNING ON A ROUTINE BASIS. LATE 1960'S

HAS LANDFILL GAS MIGRATION EVER BEEN DETECTED OFF SITE? NO

4. COMMUNICATION STATION LANDFILL

DATE SITE STARTED RECEIVING WASTE: 1951

Site 17

DATE SITES STOPPED RECEIVING WASTE. 1983

PERCENT OF SITE FILLED BY:

JANUARY 1, 1960: 0

JANUARY 1, 1970: 0

JANUARY 1, 1980: 0

JANUARY 1, 1984: 100%

WAS THE WASTE RECEIVED BY THIS SITE EVER BURNED ON A ROUTINE BASIS? NO

IF YES, PROVIDE THE FOLLOWING. N/A

DATE SITE STARTED BURNING ON A ROUTINE BASIS: N/A

DATE SITE STOPPED BURNING ON A ROUTINE BASIS: N/A

HAS LANDFILL GAS MIGRATION EVER BEEN DETECTED OFF SITE? NO

ATTACHMENT B

1. MAGAZINE ROAD LANDFILL  
TYPE OF FILL: PIT

5.4 2

TOTAL ACREAGE OF BASE: 5.000  
WASTE DISPOSAL AREA ACREAGE: 2.2  
VOLUME OF WASTE: UNKNOWN  
QUANTITY OF WASTE: UNKNOWN  
MINIMUM DEPTH OF WASTE: UNKNOWN  
MAXIMUM DEPTH OF WASTE: UNKNOWN  
AVERAGE DEPTH OF WASTE: UNKNOWN  
AVERAGE THICKNESS OF EXISTING TOP COVER: UNKNOWN  
DOES THIS SITE HAVE A LINER? NO.  
IF YES, DESCRIBE: --  
TYPE OF COVER MATERIAL: DIRT

2. ORIGINAL LANDFILL

5.4 3

TYPE OF FILL: TRENCHES AND PITS  
TOTAL ACREAGE OF BASE: 5.000  
WASTE DISPOSAL AREA ACREAGE: 2.0  
VOLUME OF WASTE: ESTIMATED BETWEEN 163,000 AND 243,000 CUBIC YARDS.  
QUANTITY OF WASTE: UNKNOWN  
MINIMUM DEPTH OF WASTE: UNKNOWN  
MAXIMUM DEPTH OF WASTE: UNKNOWN  
AVERAGE DEPTH OF WASTE: UNKNOWN  
AVERAGE THICKNESS OF EXISTING TOP COVER: UNKNOWN  
DOES THIS SITE HAVE A LINER: NO  
IF YES, DESCRIBE: --  
TYPE OF COVER MATERIAL: DIRT

3 PERIMETER ROAD LANDFILL

Site 5

TYPE OF FILL: TRENCH

TOTAL ACREAGE OF BASE: 5.000

WASTE DISPOSAL AREA ACREAGE: UNKNOWN. ESTIMATED TO BE 1200' X 60'

VOLUME OF WASTE: ESTIMATED BETWEEN 50,000 TO 60,000 CUBIC YARDS

QUANTITY OF WASTE: UNKNOWN

MINIMUM DEPTH OF WASTE: UNKNOWN

MAXIMUM DEPTH OF WASTE: ESTIMATED TO BE 35 FT.

AVERAGE DEPTH OF WASTE: UNKNOWN

AVERAGE THICKNESS OF EXISTING TOP COVER: UNKNOWN

DOES THIS SITE HAVE A LINER? NO

IF YES, DESCRIBE: --

TYPE OF COVER MATERIAL: DIRT

4. COMMUNICATION STATION LANDFILL

Site 12

TYPE OF FILL: WASTES WERE DISPOSED OF ABOVEGROUND BUT WERE LATER COVERED BY SOIL CUT FROM A NEARBY HILL THAT WAS BEING LEVELED TO MEET CLEARANCE CRITERIA FOR THE RUNWAY.

TOTAL ACREAGE OF BASE: 5.000

WASTE DISPOSAL AREA ACREAGE: 26

VOLUME OF WASTE: UNKNOWN

QUANTITY OF WASTE: UNKNOWN

MINIMUM DEPTH OF WASTE: UNKNOWN

MAXIMUM DEPTH OF WASTE: UNKNOWN

AVERAGE DEPTH OF WASTE: UNKNOWN

AVERAGE THICKNESS OF EXISTING TOP COVER: UNKNOWN

DOES THIS SITE HAVE A LINER: NO

IF YES, DESCRIBE: --

TYPE OF COVER MATERIAL: DIRT

ATTACHMENT D

1. MAGAZINE ROAD LANDFILL

site 2

GIVE THE DISTANCE IN MILES TO THE NEAREST:

OCCUPIED BUILDING: 0.22  
DESCRIBE THE BUILDING AND USE: MAGAZINE EQUIPMENT SHED, USED BY  
ORDNANCE PERSONNEL  
RESIDENTIAL AREA: 0.71  
HOSPITAL: 2.71  
SHOPPING CENTER: 2.70  
PUBLIC THOROUGHFARE: 0.64  
SCHOOL: 1.42  
PARK: 0.57  
BUSINESS: 1.42

2. ORIGINAL LANDFILL

site 3

GIVE THE DISTANCE IN MILES TO THE NEAREST:

OCCUPIED BUILDING: 0  
DESCRIBE THE BUILDING AND USE: FLIGHT SIMULATOR BUILDING  
RESIDENTIAL AREA: 0.14  
HOSPITAL: 1.56  
SHOPPING CENTER: 1.50  
PUBLIC THOROUGHFARE: 0.07  
SCHOOL: 0.35  
PARK: 1.77  
BUSINESS: 0.64

3. PERIMETER ROAD LANDFILL

site 5

GIVE THE DISTANCE IN MILES TO THE NEAREST:

OCCUPIED BUILDING: 2.13  
DESCRIBE THE BUILDING AND USE: FEDERAL AVIATION ADMINISTRATION, RADAR  
BUILDING.  
RESIDENTIAL AREA: 0.95  
HOSPITAL: 2.21  
SHOPPING CENTER: 2.29  
PUBLIC THOROUGHFARE: 0.01  
SCHOOL: 1.21  
PARK: 2.73  
BUSINESS: 1.42

4. COMMUNICATION STATION LANDFILL

site 17

GIVE THE DISTANCE IN MILES TO THE NEAREST:

OCCUPIED BUILDING: 0.14  
DESCRIBE THE BUILDING AND USE: REMOTE RECEIVER BUILDING  
RESIDENTIAL AREA: 0.39  
HOSPITAL: 2.35  
SHOPPING CENTER: 2.34  
PUBLIC THOROUGHFARE: 0.56  
SCHOOL: 1.14  
PARK: 2.29  
BUSINESS: 1.07

MWR  
5A.4

6280  
1JG

30 NOV 1987

South Coast Air Quality Management District  
9150 Flair Drive  
El Monte, CA 91731

Dear Sirs:

Section 41805(B) of the Health and Safety Code provides for solid waste air quality testing at inactive landfills by January 2, 1988. Although federal facilities may not be subject to this requirement, we intend, in keeping with our continued concern for environmental protection, and in the interest of cooperation with the District, to conduct such testing at the Marine Corps Air Stations at El Toro and Tustin. However, it is necessary that we request a six month extension to complete the testing.

The Air quality assessment testing has already been incorporated into our Installation Restoration Program (IRP) for both bases. However, the consulting firm performing the investigation for the IRP, James H. Montgomery Consulting Engineers, Inc., cannot begin testing until its contract has been modified and funds are appropriated for the additional work. Such contract modifications and appropriations take from two to three months to accomplish, and performance will take at least ninety days. Accordingly, the six month extension of time is needed.

Our contractor will submit a proposed plan of action to SCAQMD as soon as possible, probably in the early part of January. The testing should be complete by mid-year.

Please advise if there is any difficulty with this performance schedule. If you have any questions, please contact Ensign Michael Reber, Environmental Director, at (714) 651-2821.

Sincerely,

S. R. HOLM, JR., CAPT, CEC, USN  
Director, Facilities Mgmt. Dept.  
By direction of Commanding General

Blind copy to:  
STA OPL    STA DAY    ~~STA~~    FM FILE    FM LOG    1AQ

Commanding Officer  
(Code 114B)  
Western Division



South Coast  
AIR QUALITY MANAGEMENT DISTRICT

9150 FLAIR DRIVE, EL MONTE, CA 91731 (818) 572-6200

MAJ 1/11/88

January 11, 1988

Ensign Michael Rehor  
Environmental Director  
Marine Corps Air Station El Toro  
Facilities Management Department, Code 1JG  
Santa Ana, CA 92709-5001

Dear Ensign Rehor:

Thank you for your letter dated November 30, 1987, describing the status of the Solid Waste Air Quality Assessment Test (SWAQAT) Report for the Marine Corps Air Station disposal sites at El Toro and Tustin, California. In this letter you also requested a 6 month extension to the report deadline required by Section 41805.5 of the California Health & Safety Code.

As you know, Section 41805.5 of the State Health and Safety Code requires that all solid waste assessment test reports for inactive disposal sites must be submitted to the district on or before January 1, 1988. The District has the responsibility of enforcing Section 41805.5 and intends to issue a Notice of Violation to any inactive site which fails to submit their SWAQAT Report by the required date. Once issued, the Notice of Violation may be processed either criminally or civilly depending on the specific case. For most cases, the District plans to impose compliance schedules through the resolution of the Notices of Violation by the Mutual Letter Settlement program.

We have discussed with our Legal Division the possibility of a site requesting a variance from the District Hearing Board to obtain additional time to submit their SWAQAT Report. They advised us that the Hearing Board does not have the authority to grant variances for Section 41805.5 of the State Health and Safety Code.

1JG  
1JG 10  
1JG 20  
1JG 30  
1JG 40

The testing guidelines issued by the California Air Resources Board indicates a district may place a disposal site on a compliance schedule which includes a date by which a report must be filed. However, the District feels the imposition of a compliance schedule must be accomplished through an enforcement action and therefore has established the above described process.

As a result, your request for a 6 month extension cannot be approved.

Ensign Michael Rehor

-2-

January 11, 1988

If you have any questions, please call Mrs. Stacey Ebiner, Senior Air Quality Engineer, at (818) 572-6318 or Mr. Hugh Heney, Supervising Air Quality Inspector, at (818) 572-6195.

Very truly yours,

William J. Dennison  
Director of Engineering



Mohsen Nazemi  
Supv. A. Q. Engineer

SMKE



UNITED STATES MARINE CORPS  
MARINE CORPS AIR STATION  
EL TORO (SANTA ANA), CALIFORNIA 92709-3001

5-1-88  
IN REPLY REFER TO:  
6280  
1JG  
29 MAR 1988

South Coast Air Quality Management District  
9150 Flair Drive  
El Monte, CA 91731

RECEIVED

MAR 30 1988

AERO VIRONMENT

Dear Sirs:

The Marine Corps Air Stations at El Toro and Tustin are currently working on the solid waste air quality assessment testing at inactive landfills as provided by Section 41805(B) of the California Health and Safety Code. In keeping with our continued cooperation with the District, we wish to provide an update on the status of the testing.

The air quality assessment testing has been incorporated into our Installation Restoration Program (IRP) for both stations. James M. Montgomery, Consulting Engineers, Inc., the firm performing the IRP investigation, has contracted AeroVironment, Inc. to develop the proposals and perform testing on the landfills.

A meeting was held on March 22, 1988 between representatives from the Marine Corps, James M. Montgomery, AeroVironment and Mrs. Stacey Ebner, Senior Air Quality Engineer on your staff. At this meeting, various technical questions on the testing were answered by Ms. Ebner. With this information, AeroVironment has begun developing the proposals for the assessment testing.

The proposed plan of action should be submitted in the early part of May. After the proposals are reviewed and approved, we will initiate the appropriate actions in order to accomplish the testing.

If you have any questions, please contact Ensign Michael Rehor, Environmental Director, at (714) 651-2821.

J. R. APPLGATE, LCDR, CSC, USNR  
Deputy Director, Facilities Mgmt. Dept.  
By direction of Commanding General

Copy to:  
James M. Montgomery, Consulting Engineers, Inc.  
AeroVironment, Inc.

# **STRATA** Technologies Inc.

"Strategic Assessment and Toxics Abatement"

8 April 1988  
Please Reference: 50050

Ms. Stacey M. K. Ebner  
Senior Air Quality Engineer  
South Coast  
Air Quality Management District  
9150 E. Flair Drive  
El Monte, CA 91731

Dear Ms. Ebner:

It was a pleasure meeting you at our meeting concerning the Air SWAT proposals for the El Toro Marine Corps Air Station. I have summarized the items we discussed and the key points that Strata Technologies is using to prepare the Air SWAT proposals.

- o The disposal history and location of the five abandoned landfills has been researched as part of the MCAS environmental investigation programs. Based on the suspected porportion of municipal waste to other wastes, the proposals will be prepared using the guidelines for active, non-hazardous sites.
- o One site may be classified as a Category II landfill. The other four will be classified as Category I sites.

The proposals are being prepared according to the guidelines and as we discussed. If you have any questions please feel free to contact me at (818) 357-9023.

Sincerely,

  
Stacy Lorydahl  
Associate Project Manager

cc. Ken Reich - James M. Montgomery

An  AeroVironment Company

825 Myrtle Avenue • Monrovia, California 91016 • Telephone 818/357-9023 • Telex 467 121, AEROVIR-CI



UNITED STATES MARINE CORPS  
MARINE CORPS AIR STATION  
EL TORO (SANTA ANA), CALIFORNIA 92709-5001

IN REPLY REFER TO:  
6280  
LJG.

16 MAY 1988

South Coast Air Quality Management District  
Engineering Division  
9150 Flair Drive  
El Monte, CA 91731

Attn: Stacy Ebiner

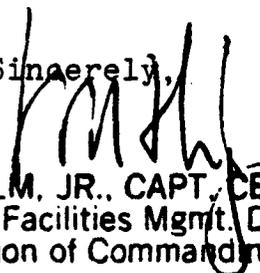
Dear Ms. Ebiner:

As required by Section 41805(B) of the California Health and Safety Code, the Solid Waste Air Quality Assessment Test (SWAQAT) Plans for the four inactive landfills at Marine Corps Air Station (MCAS) El Toro are submitted for your review.

We plan to proceed diligently with the actual testing, once the SWAQAT Plans are approved. Therefore, we would appreciate if you could review our plans in a timely manner.

Please note that the SWAQAT Plan for the inactive landfill at MCAS Tustin will be submitted within the next two weeks. If you have any questions, please contact Ensign Michael Rehor, Environmental Director, at (714) 651-2821.

Sincerely,

  
S. R. HOLM, JR., CAPT, CEC, USN  
Director, Facilities Mgmt. Dept.  
By direction of Commanding General

Encl:

1. SWAQAT Plan for the Perimeter Road Disposal Site (3 copies)
2. SWAQAT Plan for the Communications Station Landfill (3 copies)
3. SWAQAT Plan for the Original Landfill (3 copies)
4. SWAQAT Plan for the Magazine Road Landfill (3 copies)

Copy to:

James M. Montgomery Consulting Engineers, Inc. (w/o encl.)  
AeroVironment, Inc. (w/o encl.)

RECEIVED  
MAY 16 1988  
STRATA

# **STRATA** Technologies Inc.

"Strategic Assessment and Toxics Abatement"

20 July 1988  
Please reference: 50050

Mr. Bijan Ataian  
SCAQMD  
9150 E. Flair Drive  
El Monte, CA 91731

Dear Mr. Ataian:

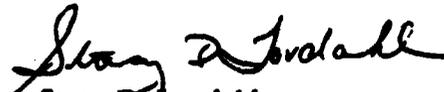
The purpose of this letter is to revise a statement in five Air SWAT Work Plans recently submitted to SCAQMD. The Work Plans are:

U.S. Marine Corps Air Station - El Toro  
Communications Station Landfill  
Perimeter Road Disposal Site  
Magazine Road Landfill  
Original Landfill

U.S. Marine Corps Air Station - Tustin  
Moffett Trenches

We will collect ambient air drainage samples (less than 24-hour samples) at the above five sites for at least 4 hours. I hope this clarifies our submittals and resolves any questions you may have. Please contact me if you require further information.

Sincerely,

  
Stacy E. Lovdahl  
Project Manager

cc. Kenneth D. Reich - James Montgomery  
Michael Rehor - USMCAS

An  AeroVironment Company

625 Myrtle Avenue • Monrovia, California 91016 • Telephone 818/357-9023 • Telex 467 121, AEROVIR-CI

# **STRATA** Technologies Inc.

Strategic Assessment and Toxic Abatement

9 August 1988  
Please reference: 50050

Mr. Bijan Ataian  
SCAQMD  
9150 E. Flair Drive  
El Monte, CA 91731

Dear Mr. Ataian:

The following information is provided in response to our telephone conversation yesterday. The Air SWAT Work Plans recently submitted to SCAQMD for the U.S. Marine Corps Air Station - El Toro Communications Station Landfill and the Magazine Road Landfill are revised to include the following information. This information is in addition to section 4 in both Plans.

Two sets of air samples will be collected each day, one set for 24 hours and one set during nighttime drainage conditions. During drainage conditions the samplers will be turned on after drainage conditions start ( as early as 10:00 pm) and turned off four hours later before they end (by 5:00 to 7:00 am).

I hope this clarifies our submittals and resolves any questions you may have. Please contact me if you require further information.

Sincerely,

*Stacy D. Lovdahl*  
Stacy D. Lovdahl  
Project Manager

cc. Kenneth D. Reich - James Montgomery  
Michael Rehor - USMCAS

An  AeroVironment Company

825 Myrtle Avenue • Monrovia, California 91016 • Telephone 818/357-9023 • Telex 467 121. AEROVIR-CI

# **STRATA** Technologies Inc.

"Strategic Assessment and Toxics Abatement"

7 September 1988  
Please reference: 50050

Mr. Bijan Ataian  
SCAQMD  
9150 E. Flair Drive  
El Monte, CA 91731

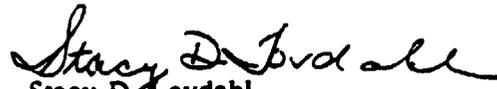
Dear Mr. Ataian:

The following information is provided in response to our telephone conversation today. The Air SWAT Work Plans recently submitted to SCAQMD for the U.S. Marine Corps Air Station - El Toro Perimeter Road Landfill is revised to include the following information. This information is in addition to section 4.

Two sets of air samples will be collected each day, one set for 24 hours and one set during nighttime drainage conditions. During drainage conditions the samplers will be turned on after drainage conditions start ( as early as 10:00 pm) and turned off four hours later before they end (by 5:00 to 7:00 am).

I hope this clarifies our submittal and resolves any questions you may have. I understand from our conversation that the Air SWAT Work Plans for Communications Station, Original Road and Magazine Road landfills at MCAS El Toro Station and the Moffett Trenches landfill at the Tustin Station are approved and that the Perimeter Road Plan will be approved on receipt of this submittal. Please contact me if you require further information.

Sincerely,

  
Stacy D. Lovdahl  
Project Manager

cc. **Kenneth D. Reich - James Montgomery**  
**Michael Rehor - USMCAS**