

## APPENDIX N

### Perimeter Air Data Tables (Tables N-1 to N-11) Wind Rose Diagrams (Figures N-1 to N-11) Pilot Study No. 3

Date, Pilot Study No. 3 Phase, and Site activities noted as follows (see Table 3.4-1):

<b>Date</b>	<b>Phase</b>	<b>Site Activities</b>	<b>Detection Summary</b>	<b>Wind Rose Diagram</b>
May 17, 2004	III	FLA trenching: PNL-TP01	Table N-1	Figure N-1
May 18, 2004	III	FLA trenching: PNL-TP05 and PNL-TP06	Table N-2	Figure N-2
May 19, 2004	III	FLA trenching: PNL-TP02 and PNL-TP04	Table N-3	Figure N-3
May 20, 2004	III	FLA trenching: PNL-TP03 and PNL-TP07	Table N-4	Figure N-4
May 24, 2004	IV	Lagoon trenching: PNL-L5A PNL-L4A/B	Table N-5	Figure N-5
May 25, 2004	IV	Lagoon trenching: PNL-L5B PNL-L3A/B	Table N-6	Figure N-6
May 26, 2004	IV	Lagoon trenching: PNL-L1A/B PNL-L2A/B	Table N-7	Figure N-7
June 28, 2004	VIII	Pit F area drilling: PNL-F04, -F05, -F06, -F07	Table N-8	Figure N-8
June 29, 2004	VIII	Pit F area drilling: PNL-F03, -F11, -F17, -F18, -F21,-F27	Table N-9	Figure N-9
June 30, 2004	VIII	Pit F area drilling: PNL-F01, -F12, -F19, Pit F sampling	Table N-10	Figure N-10
July 1, 2004	VIII	Pit F area drilling: PNL-F22, -F25, -F26, -F28, -F30	Table N-11	Figure N-11

**Table N-1**  
 Perimeter Air Detections (TO-15, TO-3)  
 May 17, 2004 -- Phase III  
 Ascon Landfill Site

<b>TO-15 Component</b>	<b>units</b>	<b>AA-01</b>	<b>AA-02</b>	<b>AA-03</b>	<b>AA-04</b>	<b>AA-05</b>	<b>AA-07</b>	<b>AA-07dup.</b>
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	4.8	1.3	1.8	3.1	1.4	1.3	1.3
2-Hexanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	19	8.9	13	21	12	18	17
Benzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	ND	ND	1.2	ND	ND	ND
Chloromethane	ug/m3	ND	0.75	ND	1.1	1.3	ND	ND
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	3.8	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/m3	5.9	1.2	ND	0.81	ND	ND	ND
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.1	1.1	1	1	1	1.3	1.2
Vinyl Acetate	ug/m3	5.1	2.9	1	3.3	1.3	3.6	3.4
<b>TO-3 Component</b>								
Methane	ppmV	2.3	2.2	2.5	2.3	2.3	2.6	NA

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-2**  
 Perimeter Air Detections (TO-15, TO-3)  
 May 18, 2004 -- Phase III  
 Ascon Landfill Site

<b>TO-15 Component</b>	<b>units</b>	<b>AA-01</b>	<b>AA-02</b>	<b>AA-03</b>	<b>AA-04</b>	<b>AA-05</b>	<b>AA-07</b>
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	2.6	4.5	5.4	2.7	5.4	5.5
2-Hexanone	ug/m3	ND	1.6	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	ND	29	26	18	56	57
Benzene	ug/m3	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	ND	ND	ND	ND	ND
Chloromethane	ug/m3	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	1.2	ND	2.5	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	ND	ND	ND	ND	ND	ND
Toluene	ug/m3	6.4	6.5	9	4.3	3	7.5
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	ND	ND	ND	1.2	ND	ND
Vinyl Acetate	ug/m3	2.3	4.4	6.6	6.1	11	11
<b>TO-3 Component</b>							
Methane	ppmV	2.4	2.7	2.9	2.6	3.4	3.8

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-3**  
 Perimeter Air Detections (TO-15, TO-3)  
 May 19, 2004 -- Phase III  
 Ascon Landfill Site

<b>TO-15 Component</b>	<b>units</b>	<b>AA-01</b>	<b>AA-02</b>	<b>AA-03</b>	<b>AA-03 dup.</b>	<b>AA-04</b>	<b>AA-05</b>	<b>AA-07</b>
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	1.1	1.5	2	2	3.5	2.4	2
2-Hexanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	8.5	8.9	17	17	22	16	18
Benzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ug/m3	ND	ND	ND	ND	0.85	1	0.89
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/m3	0.81	1	0.95	0.93	2.3	1.6	1.6
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.2	1.2	1.1	1.1	1.1	1.1	1.1
Vinyl Acetate	ug/m3	2	ND	4.7	5.3	5.7	3.8	4.5
<b>TO-3 Component</b>								
Methane	ppmV	2.3	2.2	2.6	NA	2.4	2.2	2.7

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-4**  
 Perimeter Air Detections (TO-15, TO-3)  
 May 20, 2004 -- Phase III  
 Ascon Landfill Site

TO-15 Component	units	AA-01	AA-01 dup.	AA-02	AA-03	AA-04	AA-05	AA-07
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	ND	ND	ND	2.3	1.2	ND	1.4
2-Hexanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	ND	ND	29	21	ND	10	11
Benzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	0.82	ND	ND	ND	ND	ND
Chloromethane	ug/m3	0.84	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/m3	ND	ND	ND	1	ND	ND	ND
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Vinyl Acetate	ug/m3	ND	ND	3.8	3.7	1.3	2.5	1.5

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-5**  
 Perimeter Air Detections (TO-15, TO-3)  
 May 24, 2004 -- Phase IV  
 Ascon Landfill Site

<b>TO-15 Component</b>	<b>units</b>	<b>AA-01</b>	<b>AA-02</b>	<b>AA-03</b>	<b>AA-04</b>	<b>AA-05</b>	<b>AA-07</b>
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	1.7	1	ND	ND	1.7	1.8
2-Hexanone	ug/m3	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	13	9	ND	ND	10	13
Benzene	ug/m3	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	ND	ND	ND	ND	ND
Chloromethane	ug/m3	ND	ND	ND	0.88	ND	ND
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	2.1	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	1	ND	ND	ND	ND	ND
Toluene	ug/m3	0.91	ND	ND	ND	ND	ND
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.4	1.6	1.5	1.5	1.6	1.5
Vinyl Acetate	ug/m3	2.7	1.4	ND	ND	1.2	1.9

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-6**  
 Perimeter Air Detections (TO-15, TO-3)  
 May 25, 2004 -- Phase IV  
 Ascon Landfill Site

<b>TO-15 Component</b>	<b>units</b>	<b>AA-01</b>	<b>AA-01 dup.</b>	<b>AA-02</b>	<b>AA-03</b>	<b>AA-04</b>	<b>AA-05</b>	<b>AA-07</b>
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	1.5	1.5	4	2.9	3.8	3.2	2.4
2-Hexanone	ug/m3	ND	ND	1.4	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	ND	ND	22	ND	12	18	16
Benzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	0.81	0.79	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/m3	2.3	2.3	ND	3.8	5	6.1	3
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.3	1.2	1.2	1.3	1.3	1.3	1.3
Vinyl Acetate	ug/m3	ND	ND	2.4	2.3	3.2	6.4	2.5
<b>TO-3 Component</b>								
Methane	ppmV	3.2	NA	2.2	2.9	2.5	2.6	2.1

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-7**  
 Perimeter Air Detections (TO-15, TO-3)  
 May 26, 2004 -- Phase IV  
 Ascon Landfill Site

<b>TO-15 Component</b>	<b>units</b>	<b>AA-01</b>	<b>AA-02</b>	<b>AA-03</b>	<b>AA-04</b>	<b>AA-05</b>	<b>AA-07</b>
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	2.7	2.8	2.4	1.7	1.5	0.9
2-Hexanone	ug/m3	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	ND	15	16	10	8.8	ND
Benzene	ug/m3	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	ND	ND	ND	ND	ND
Chloromethane	ug/m3	ND	ND	ND	ND	0.84	0.95
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	1	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	ND	ND	ND	ND	ND	ND
Toluene	ug/m3	4.1	4.2	1.5	ND	0.76	ND
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	ND	1.3	1.2	1.2	1.3	1.2
Vinyl Acetate	ug/m3	1.7	5.6	3.4	ND	0.87	ND
<b>TO-3 Component</b>							
Methane	ppmV	1.8	2.3	2.7	2.7	2.8	2.8

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.



**Table N-8**  
 Perimeter Air Detections (TO-15, TO-3)  
 June 28, 2004 -- Phase VIII  
 Ascon Landfill Site

TO-15 Component	units	AA-01	AA-02	AA-03	AA-04A	AA-05	AA-07
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	ND	ND	ND	2.1	ND	ND
2-Hexanone	ug/m3	ND	ND	ND	0.78	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	ND	ND	ND	11	ND	ND
Benzene	ug/m3	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	1	ND	ND	ND	ND	ND
Chloromethane	ug/m3	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	2.1	ND	ND	1.2	ND	1.7
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	ND	ND	ND	ND	ND	ND
Toluene	ug/m3	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.2	1.1	1.1	1.1	1.1	ND
Vinyl Acetate	ug/m3	ND	ND	1.5	1.7	ND	ND

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-9**  
 Perimeter Air Detections (TO-15, TO-3)  
 June 29, 2004 -- Phase VIII  
 Ascon Landfill Site

TO-15 Component	units	AA-01	AA-02	AA-03	AA-04A	AA-05	AA-07	AA-07 dup.
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	ND	ND	ND	8.8	ND	11	10
Benzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	0.84	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/m3	ND	ND	ND	0.92	ND	ND	ND
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.2	1.2	1.1	1.2	1.2	1.2	1.1
Vinyl Acetate	ug/m3	ND	ND	ND	ND	ND	ND	ND

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-10**  
 Perimeter Air Detections (TO-15, TO-3)  
 June 30, 2004 -- Phase VIII  
 Ascon Landfill Site

TO-15 Component	units	AA-01	AA-02	AA-03	AA-04A	AA-05	AA-07	AA-07 dup.
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	6.3	0.84	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	1.5	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	1.9	ND	ND	ND	1.4	1	0.9
2-Hexanone	ug/m3	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	2	ND	ND	ND	ND
Acetone	ug/m3	ND	ND	11	ND	8.1	9.1	9.1
Benzene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	1.8	ND	1.6	ND	ND	ND
Chloromethane	ug/m3	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/m3	ND	ND	2.3	0.98	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	3	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	3.3	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	14	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	15	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	1.2	ND	24	14	ND	ND	ND
Toluene	ug/m3	2.7	ND	49	ND	ND	ND	ND
Trichloroethene (TCE)	ug/m3	ND	ND	4.2	4.8	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.2	1.2	1.2	1.2	1.2	1.2	1.1
Vinyl Acetate	ug/m3	ND	ND	ND	ND	1.7	ND	ND

COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

**Table N-11**  
 Perimeter Air Detections (TO-15, TO-3)  
 July 1, 2004 -- Phase VIII  
 Ascon Landfill Site

TO-15 Component	units	AA-01	AA-02	AA-03	AA-04A	AA-05	AA-07
1,1,1-Trichloroethane (TCA)	ug/m3	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	ND	ND	ND	0.67
1,1-Dichloroethene (1,1-DCE)	ug/m3	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/m3	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/m3	2.4	1.2	2.3	1.5	1.4	1.3
2-Hexanone	ug/m3	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/m3	ND	ND	ND	ND	ND	ND
Acetone	ug/m3	19	11	10	13	11	10
Benzene	ug/m3	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/m3	ND	1.7	3.1	ND	ND	ND
Chloromethane	ug/m3	1	1.4	1.1	0.99	1.1	0.98
cis-1,2-Dichloroethene	ug/m3	ND	ND	ND	ND	ND	ND
Dichloromethane (Methylene Chloride)	ug/m3	3	2.5	1.3	ND	ND	ND
Ethylbenzene	ug/m3	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ug/m3	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ug/m3	ND	ND	ND	ND	ND	ND
o-Xylene	ug/m3	ND	ND	ND	ND	ND	ND
Styrene	ug/m3	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	ug/m3	0.79	0.93	ND	ND	ND	ND
Toluene	ug/m3	2.3	1.8	1.5	2.1	1.2	2.5
Trichloroethene (TCE)	ug/m3	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	ug/m3	1.5	1.5	1.5	1.5	1.5	1.5
Vinyl Acetate	ug/m3	2.1	ND	ND	1.3	1.6	1.1

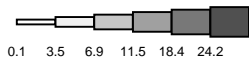
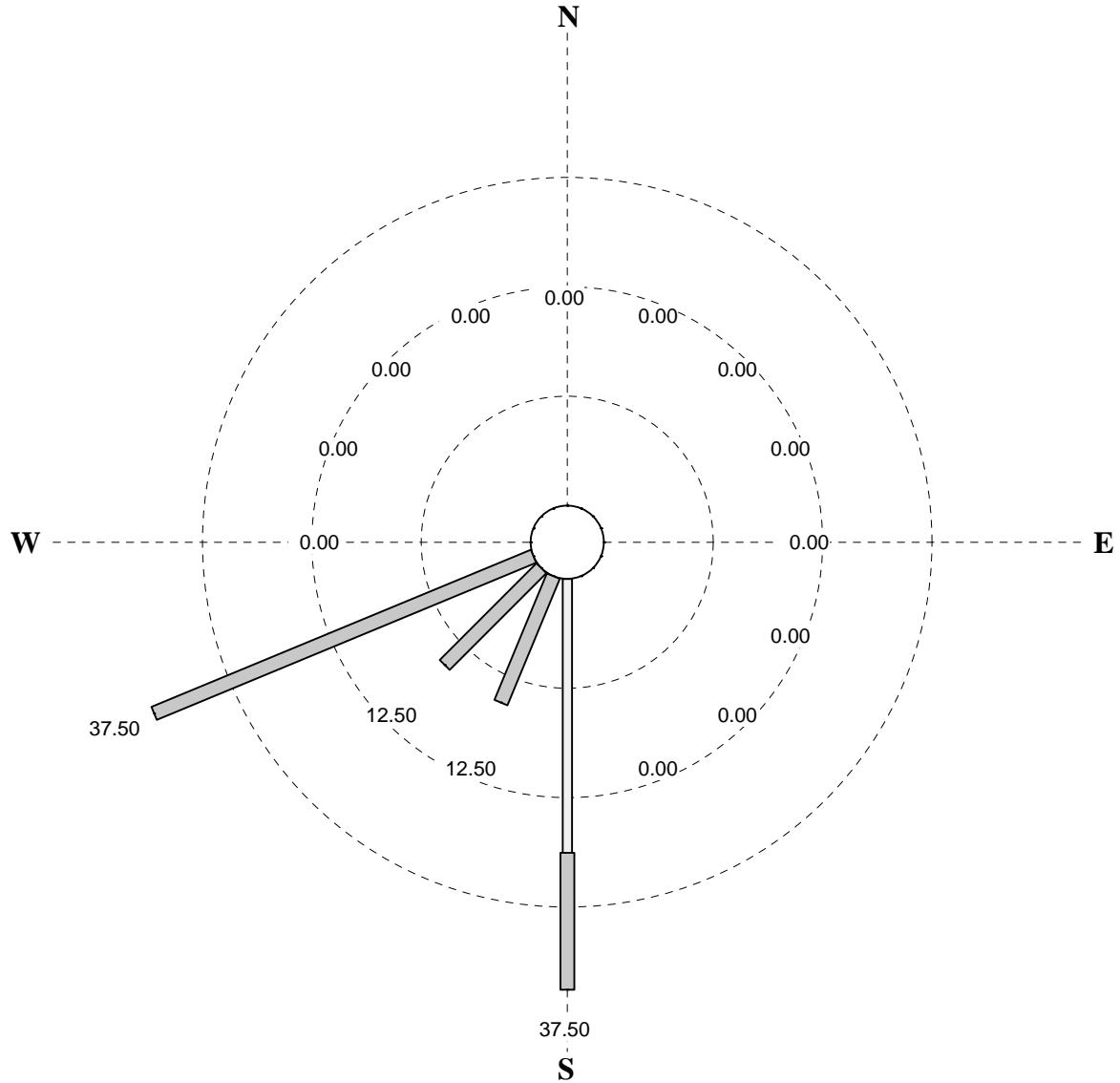
COPCs listed are those that were detected at least once during the 11 days of perimeter air sampling.

PHASE III WIND ROSE DIAGRAMS

PILOT STUDY NO. 3

ASCON LANDFILL SITE

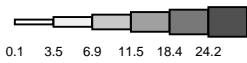
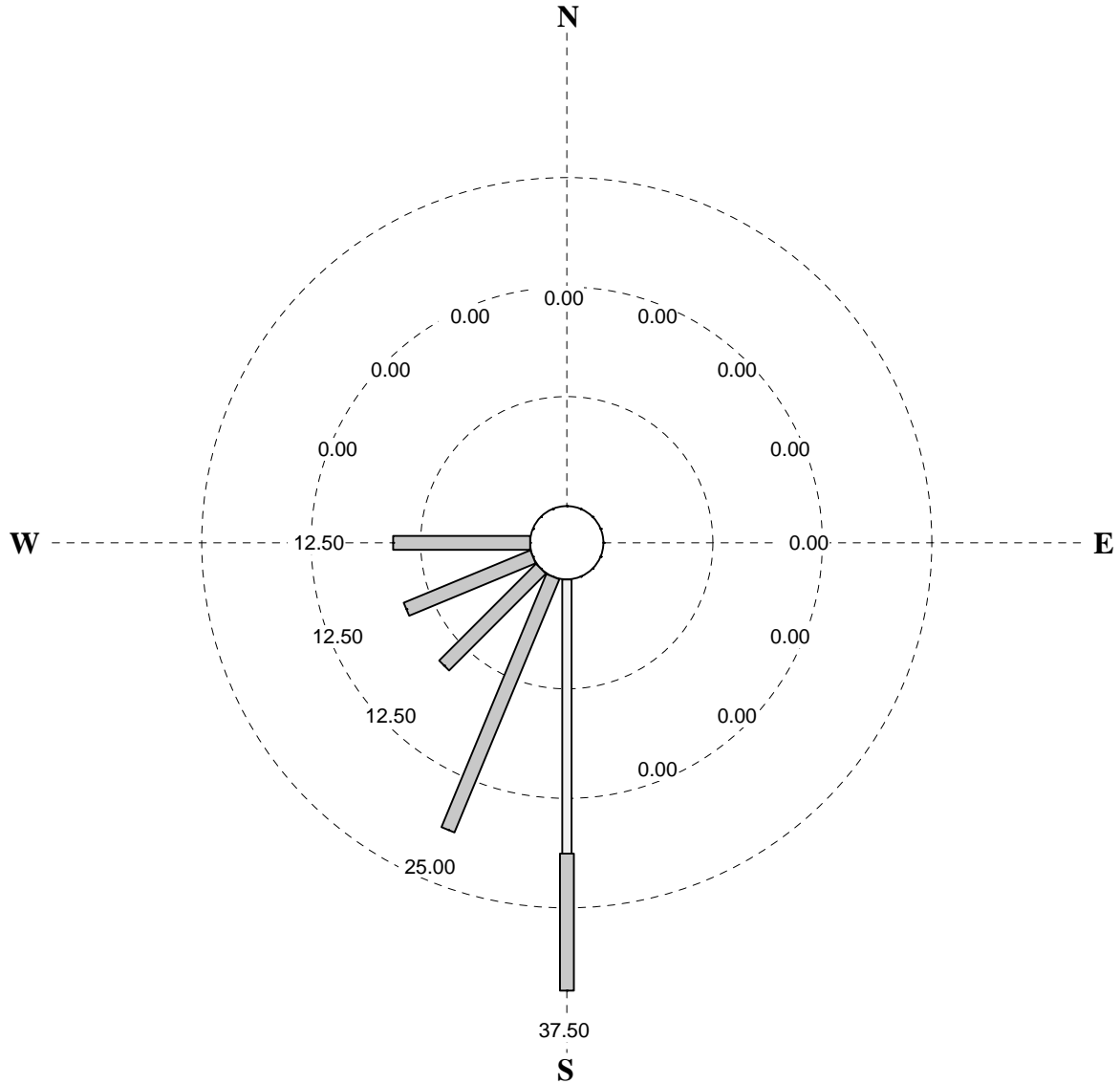
**FIGURE N-1  
WIND ROSE  
PHASE III - TEST TRENCH EXCAVATION  
8 AM - 4 PM, 17 MAY 2004**



Wind Speed ( Miles Per Hour)

Calms excluded.  
Rings drawn at 10% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.

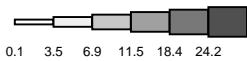
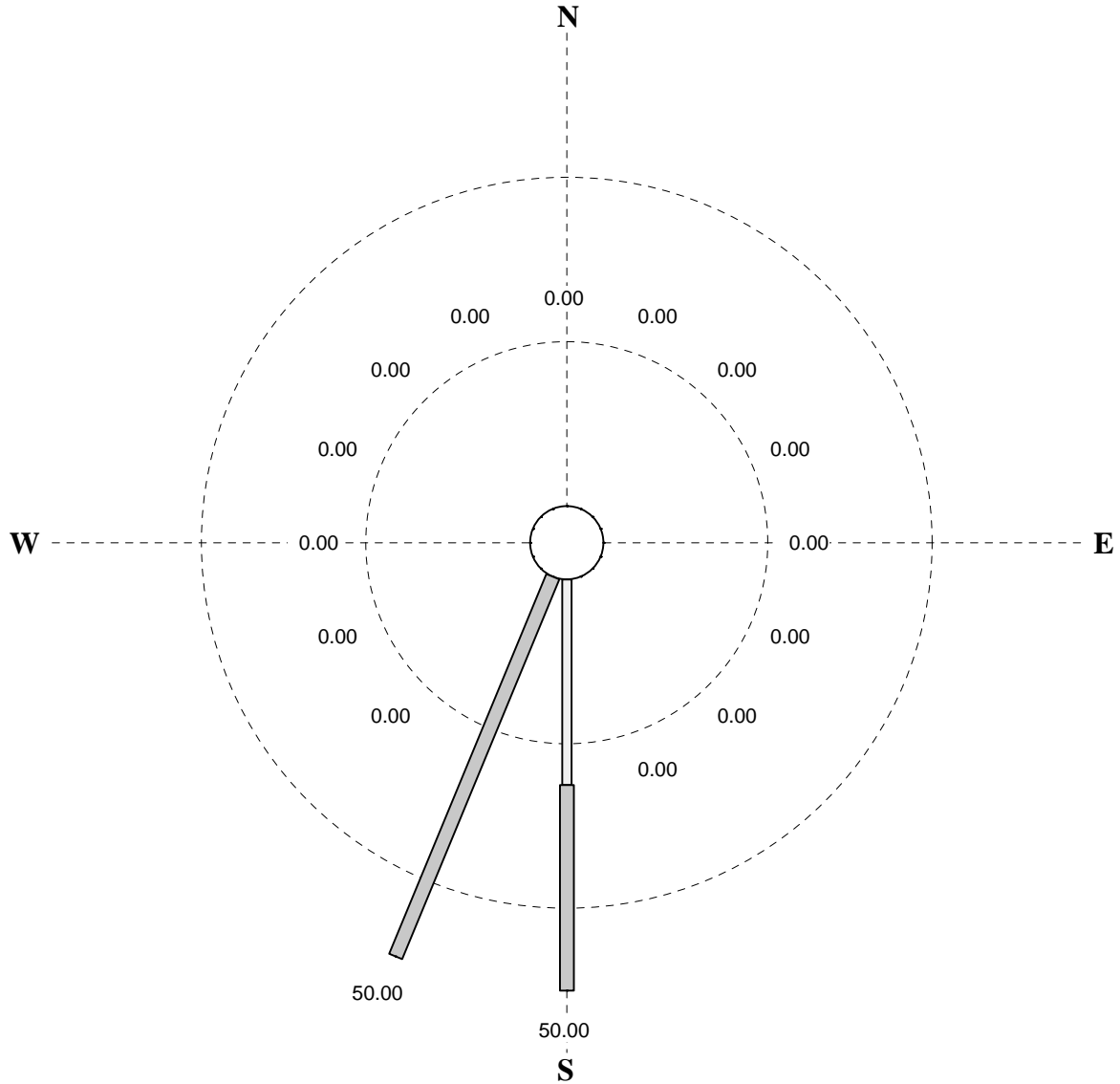
**FIGURE N-2  
WIND ROSE  
PHASE III - TEST TRENCH EXCAVATION  
7 AM - 3 PM, 18 MAY 2004**



Wind Speed ( Miles Per Hour)

Calms excluded.  
Rings drawn at 10% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.

**FIGURE N-3  
WIND ROSE  
PHASE III - TEST TRENCH EXCAVATION  
7 AM - 3 PM, 19 MAY 2004**

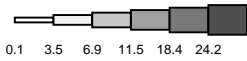
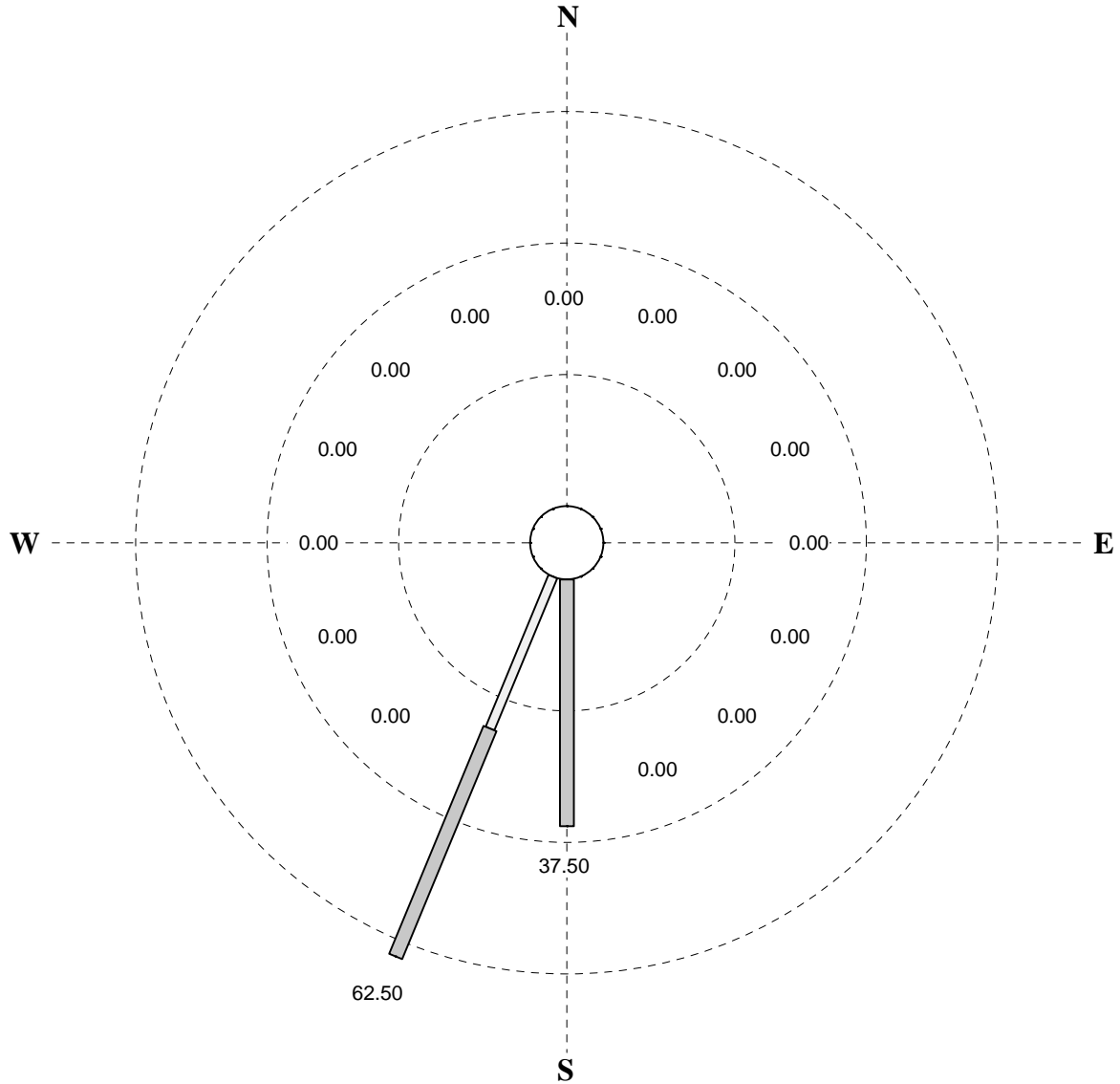


Wind Speed ( Miles Per Hour)

Calms excluded.  
Rings drawn at 20% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.



**FIGURE N-4  
WIND ROSE  
PHASE III - TEST TRENCH EXCAVATION  
7 AM - 3 PM, 20 MAY 2004**



Wind Speed ( Miles Per Hour)

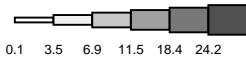
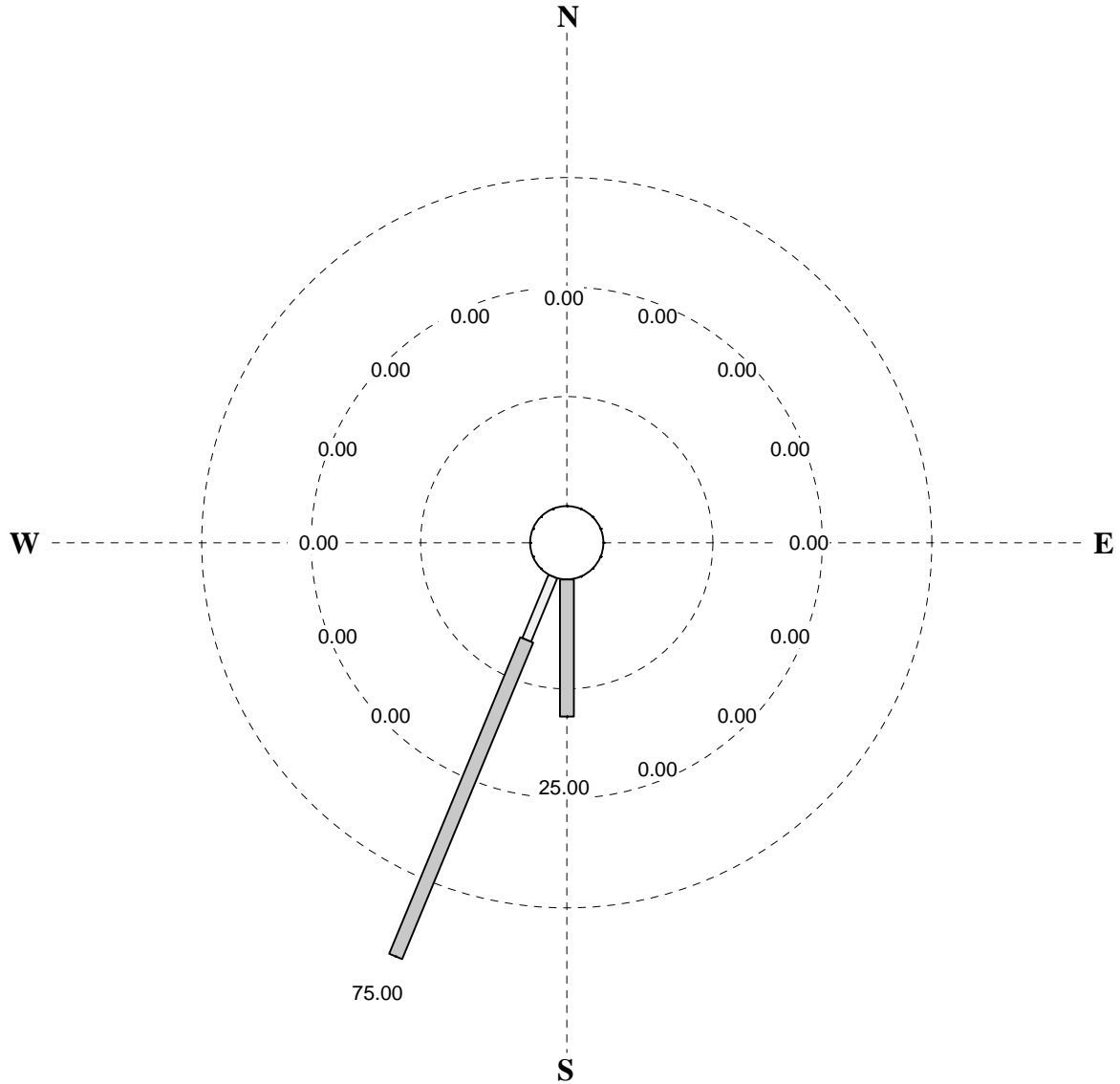
Calms excluded.  
Rings drawn at 20% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.

PHASE IV WIND ROSE DIAGRAMS

PILOT STUDY NO. 3

ASCON LANDFILL SITE

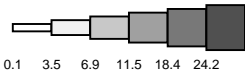
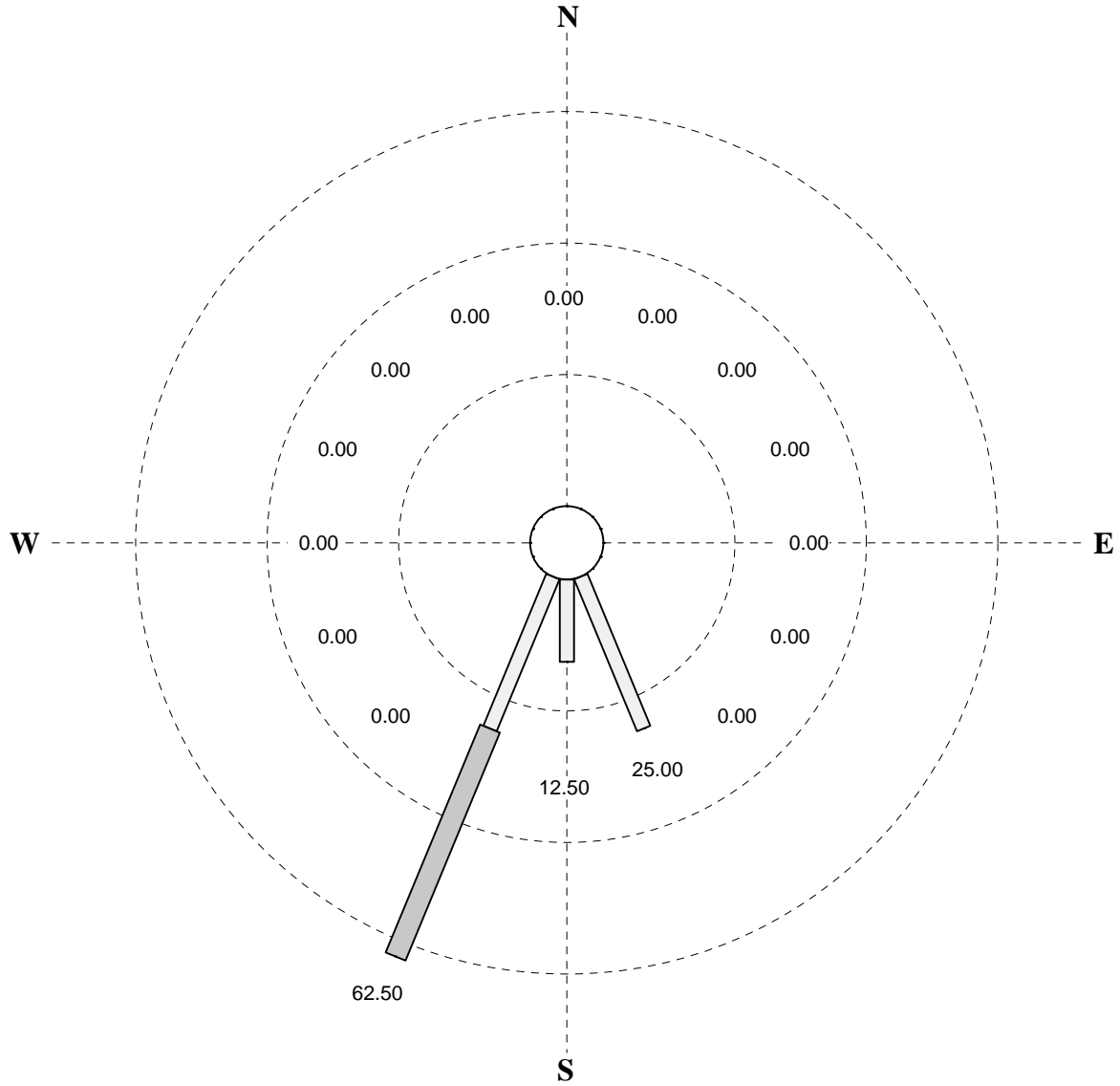
**FIGURE N-5  
WIND ROSE  
PHASE IV - LAGOON SAMPLING  
7 AM - 3 PM, 24 MAY 2004**



Wind Speed ( Miles Per Hour)

Calms excluded.  
Rings drawn at 20% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.

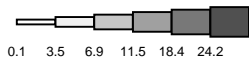
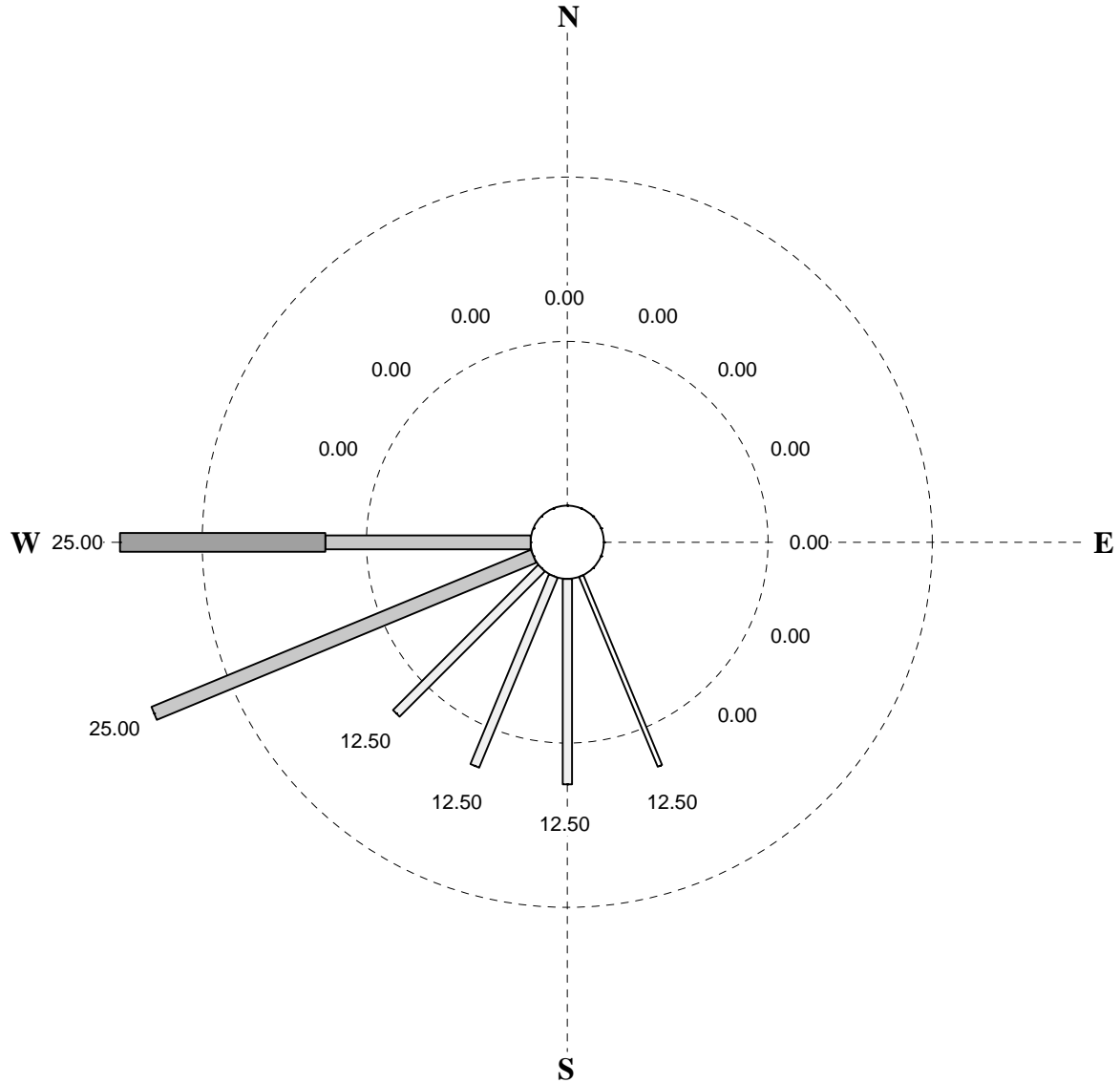
**FIGURE N-6  
WIND ROSE  
PHASE IV - LAGOON SAMPLING  
7 AM - 3 PM, 25 MAY 2004**



Wind Speed ( Miles Per Hour)

Calms excluded.  
Rings drawn at 20% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.

**FIGURE N-7  
WIND ROSE  
PHASE IV - LAGOON SAMPLING  
7 AM - 3 PM, 26 MAY 2004**



Wind Speed ( Miles Per Hour)

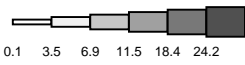
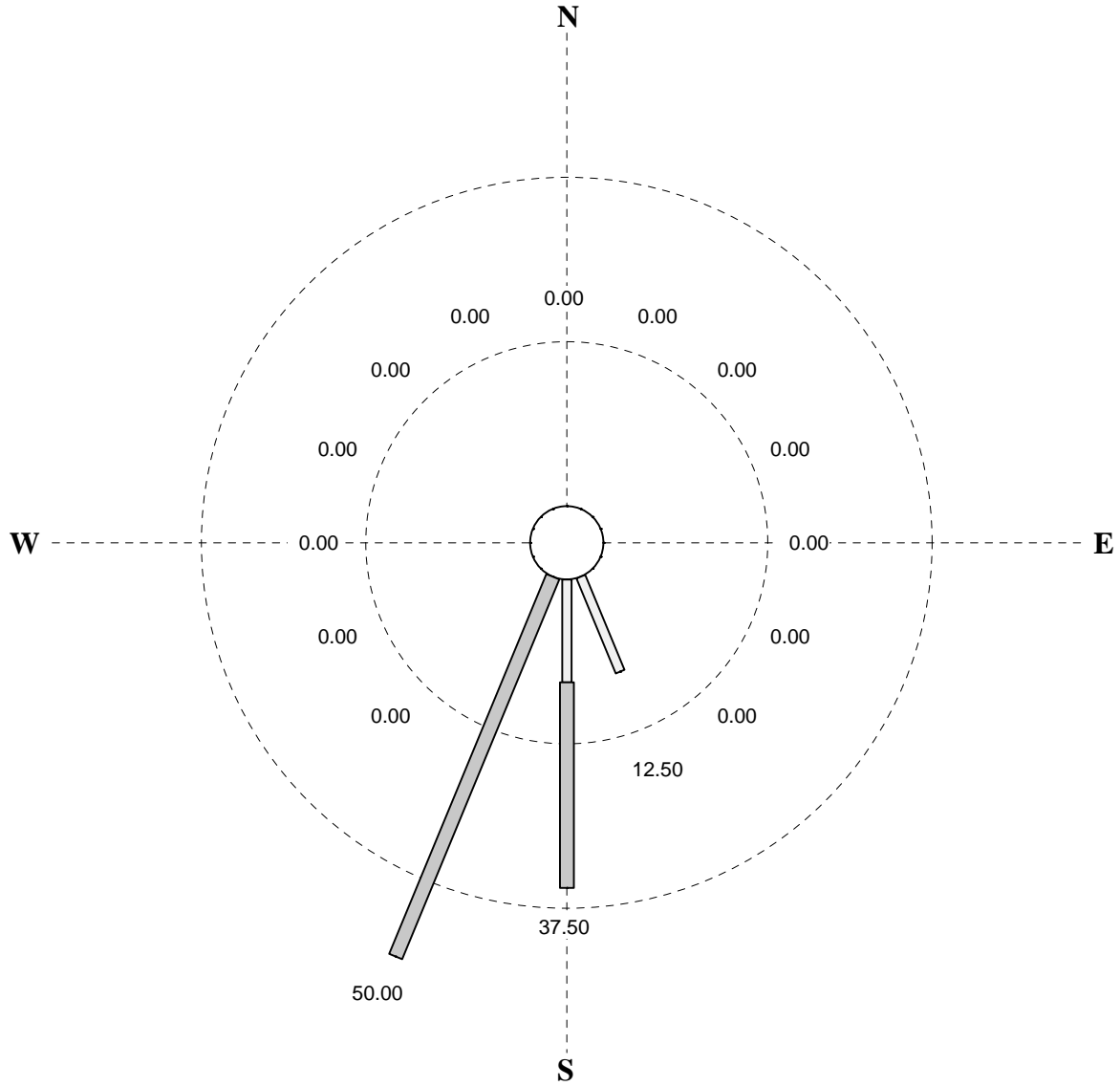
Calms excluded.  
Rings drawn at 10% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.

PHASE VIII WIND ROSE DIAGRAMS

PILOT STUDY NO. 3

ASCON LANDFILL SITE

**FIGURE N-8  
WIND ROSE  
PHASE VIII - PIT F SAMPLING  
8 AM - 4 PM, 28 JUNE 2004**



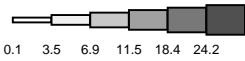
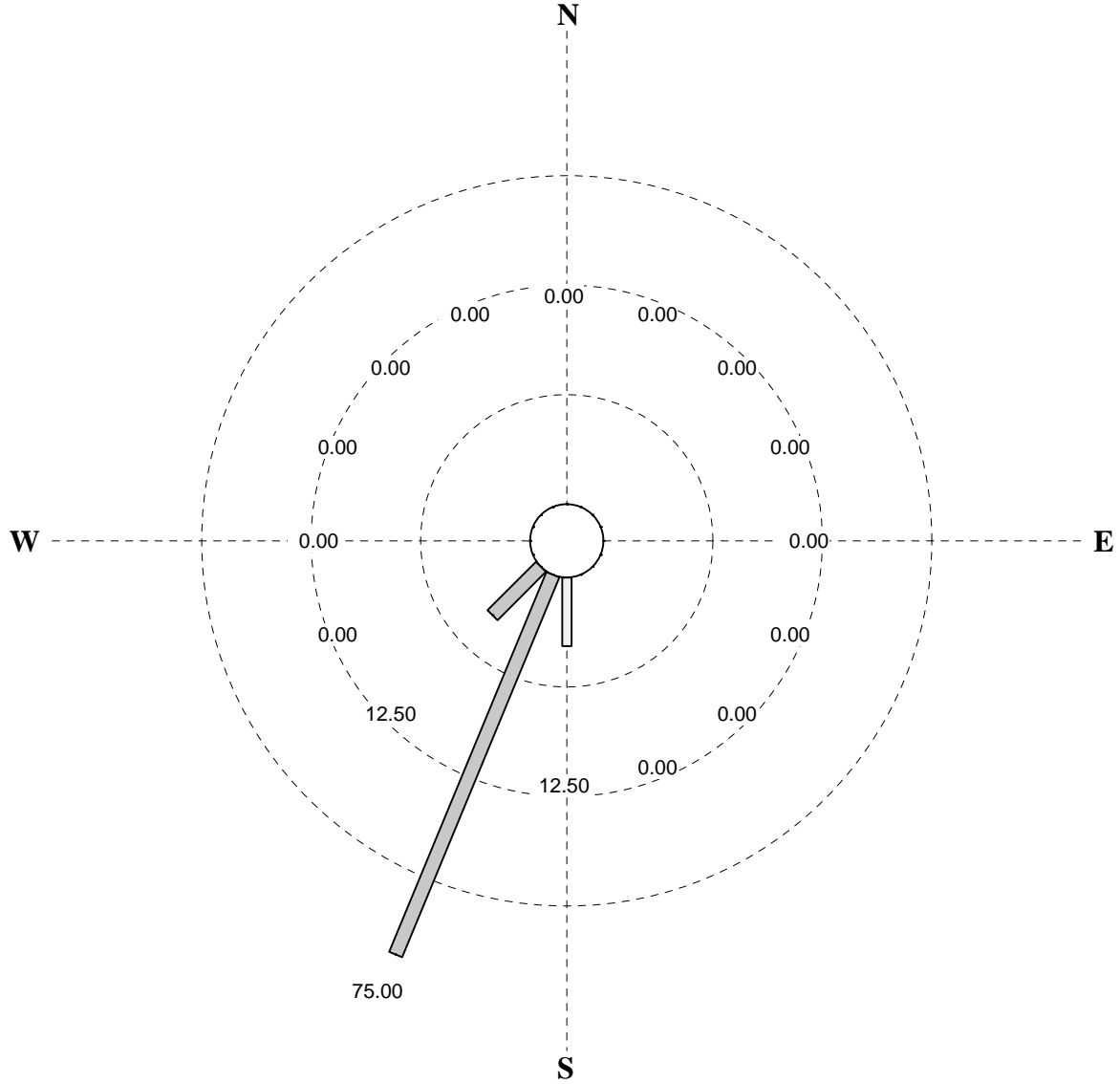
Wind Speed ( Miles Per Hour)

Calms excluded.  
Rings drawn at 20% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.





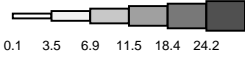
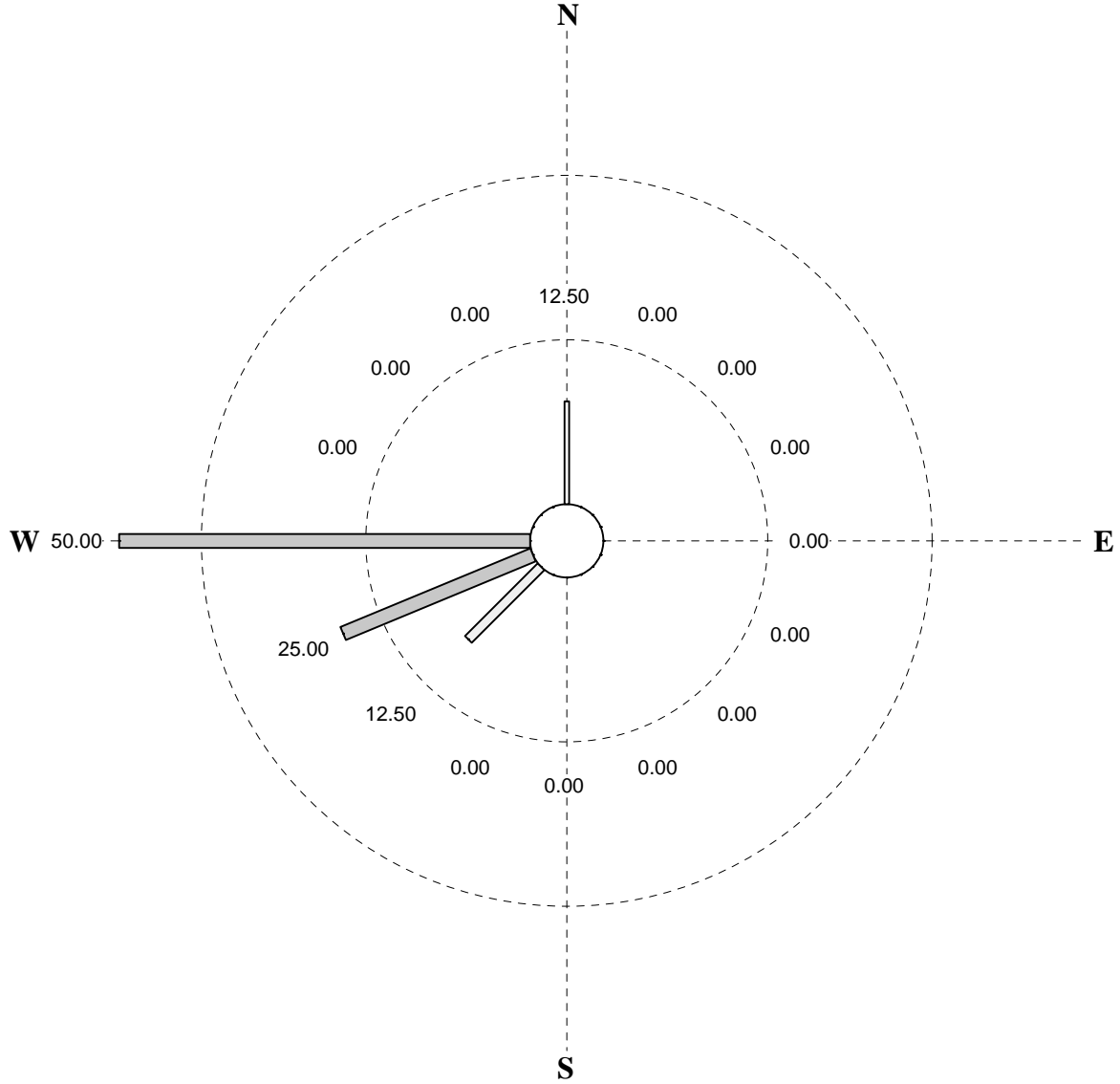
**FIGURE N-10**  
**WIND ROSE**  
**PHASE VIII - PIT F SAMPLING**  
**8 AM - 4 PM, 30 JUNE 2004**



Wind Speed ( Miles Per Hour)

Calms excluded.  
Rings drawn at 20% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.

**FIGURE N-11**  
**WIND ROSE**  
**PHASE VIII - PIT F SAMPLING**  
**8 AM - 4 PM, 1 JULY 2004**



Wind Speed ( Miles Per Hour)

Calms excluded.  
 Rings drawn at 20% intervals.  
 Wind flow is FROM the directions shown.  
 No observations were missing.