Table 3
Summary of Constituents Detected in South End Groundwater (May 2009)
(protective of facility workers exposure to vapors in indoor air)

PARAMETER	CLEAN-UP GOAL SOUTH END	BACKGROUND					COMPLIANCE WELLS	
		MW-01I 05/17/09	MW-25S 05/17/09	MW-25S (DU-09204) 05/17/09	MW-25BR 05/18/09	MW-25D 05/17/09	MP-101 05/06/09	MP-102 05/06/09
VOCs								
1,1-DCA	50	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0024**	<0.005
1,1-DCE	26	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
1,2-DCA	0.52	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0028**	<0.005
Acetone	50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Benzene	50	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Bromomethane	2.4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01
Chloroethane	NA	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0022**	<0.01
Chloroform	3.4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Chloromethane	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01
cis-1,2-DCE	33	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0763**	**0.27**
Ethylbenzene	5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Isopropylbenzene	NA	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0024**	<0.005
n-Butylbenzene	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
n-Propylbenzene	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
sec-Butylbenzene	NA	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0024**	<0.005
tert-Butlybenzene	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
PCE	2. 8	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0013**	**0.095**
trans-1,2-DCE	29	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0018**	<0.005
TCE	1.9	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0591**	**0.0592**
Vinyl chloride	0.052	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0906**	**0.0151**
TPH								
TPH-GRO	5	<0.4	<0.4	<0.4	NA	<0.4	NA	NA
TPH-DRO	5	NA	<0.2	NA	NA	NA	NA	NA
Site Metals								
Cadmium, total	0.009 [1]	<0.0025	**0.0059**	**0.0060**	<0.0025	<0.0025	NA	NA
Chromium, total	0.3	**0.0071**	<0.0050	<0.0050	**0.0326**	<0.0050	NA	NA
Copper, total	0.09	**0.0065**	<0.0050	<0.0050	**0.0122**	<0.0050	NA	NA
Nickel, total	0.2	**0.0062**	**0.0556**	**0.0606**	**0.0204**	<0.0050	NA	NA
Zinc, total	0.9	**0.0353**	**0.446**	**0.459**	**0.0624**	**0.0231**	NA	NA

Concentrations in mg/L
(1) Cadmium background average
NA Not analyzed
bold Constituent detected; highlight - constituent exceeds target
CAL1 Analyte quantified by quadratic equation type calibration

Table 3
Summary of Constituents Detected in South End Groundwater (May 2009)
(protective of facility workers exposure to vapors in indoor air)

PARAMETER	CLEAN-UP GOAL SOUTH END	COMPLIANCE WELLS								
		MP-103 05/06/09	MP-104 05/06/09	MW-04S 05/08/09	MW-10S 05/08/09	MW-10I 05/08/09	MW-16SR 05/08/09	MW-17S 05/10/09	MW-27S 05/07/09	MW-27I 05/07/09
VOCs										
1,1-DCA	50	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
1,1-DCE	26	<0.1	<0.01	**0.0352**	**0.008**	**0.0106**	<0.005	**0.0041**	<0.001	<0.5
1,2-DCA	0.52	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
Acetone	50	<1	**0.172**	<0.1	<0.01	<0.05	<0.05	<0.01	<0.01	<5
Benzene	50	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
Bromomethane	2.4	<0.2	<0.02	<0.02	<0.002	<0.01	<0.01	<0.002	<0.002	<1
Chloroethane	NA	<0.2	<0.02	<0.02	<0.002	<0.01	<0.01	<0.002	<0.002	<1
Chloroform	3.4	**0.196**	**0.085**	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
Chloromethane	NA	**0.797**	**0.347**	<0.02	<0.002	<0.01	<0.01	<0.002	<0.002	<1
cis-1,2-DCE	33	<0.1	<0.01	**0.226**	**0.0649**	**0.0361**	**0.0399**	**0.0612**	**0.0031**	**0.88**
Ethylbenzene	5	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
Isopropylbenzene	NA	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
n-Butylbenzene	NA	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
n-Propylbenzene	NA	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
sec-Butylbenzene	NA	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.5
tert-Butlybenzene	NA	<0.1	<0.01	<0.01	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001
PCE	2. 8	**18.9**	**1.6**	<0.01	<0.001	<0.005	<0.005	<0.001	**0.0561**	**34.4**
trans-1,2-DCE	29	<0.1	<0.01	<0.01	**0.001**	<0.005	<0.005	<0.001	<0.001	<0.5
TCE	1.9	<0.1	<0.01	**1.1**	**0.25**	**0.165**	**0.246**	**0.0329**	**0.0032**	**2.28**
Vinyl chloride	0.052	<0.1	<0.01	**0.0408**	**0.003**	<0.005	**0.0188**	**0.0281**	<0.001	<0.5
TPH										
TPH-GRO	5	NA	NA	**0.6**	<0.4	<0.4	<0.4	<0.4	<0.4	**13.0**
TPH-DRO	5	NA	NA	**2.1**	**1.2**	NA	**2.7**	**5.2**	**12.6**	NA
Site Metals										
Cadmium, total	0.009 [1]	NA	NA	<0.0025	**0.0062**	**0.0042**	**0.0026**	<0.0025	**0.0277**	<0.0025
Chromium, total	0.3	NA	NA	<0.0050	**0.278**	**0.349**	**0.0364**	<0.0050	**2.70**	**0.0150**
Copper, total	0.09	NA	NA	<0.0050	<0.0050	**0.0055**	**0.0107**	<0.0050	**5.06**	**0.0106**
Nickel, total	0.2	NA	NA	**0.232**	**1.96**	**1.87**	**6.13**	**1.42**	**79.9**	**0.0326**
Zinc, total	0.9	NA	NA	**0.0290**	**0.0622**	**0.0431**	**0.0448**	**0.0433**	**1.79**	**0.0463**

Concentrations in mg/L
(1) Cadmium background average
NA Not analyzed
bold Constituent detected; highlight - constituent exceeds target
CAL1 Analyte quantified by quadratic equation type calibration

Table 3
Summary of Constituents Detected in South End Groundwater (May 2009)
(protective of facility workers exposure to vapors in indoor air)

PARAMETER	CLEAN-UP GOAL SOUTH END	COMPLIANCE WELLS						
		MW-34S 05/08/09	MW-35S 05/15/09	MW-36S 05/07/09	MW-36S (DU-09201) 05/07/09	MW-41S 05/08/09	MW-50I 05/08/09	MW-52S 05/08/09
VOCs								
1,1-DCA	50	<0.001	<0.001	<0.001	<0.001	**0.0031**	<0.025	<0.5
1,1-DCE	26	**0.0037**	<0.001	**0.001**	**0.0011**	<0.001	**0.0552**	<0.5
1,2-DCA	0.52	<0.001	<0.001	<0.001	<0.001	**0.0096**	<0.025	<0.5
Acetone	50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.25	<5
Benzene	50	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.5
Bromomethane	2.4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<1
Chloroethane	NA	<0.002	<0.002	<0.002	<0.002	**0.002**	<0.05	<1
Chloroform	3.4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.5
Chloromethane	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<1
cis-1,2-DCE	33	**0.0431**	<0.001	**0.0132**	**0.0144**	**0.0215**	**0.638**	<0.5
Ethylbenzene	5	<0.001	<0.001	<0.001	<0.001	**0.0013**	<0.025	<0.5
Isopropylbenzene	NA	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.025	<0.5
n-Butylbenzene	NA	<0.001	<0.001	<0.001	<0.001	**0.0026**	<0.025	<0.5
n-Propylbenzene	NA	<0.001	<0.001	<0.001	<0.001	**0.0021**	<0.025	<0.5
sec-Butylbenzene	NA	<0.001	<0.001	<0.001	<0.001	**0.0026**	<0.025	<0.5
tert-Butlybenzene	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.5
PCE	2. 8	**0.0061**	<0.001	**0.0091**	**0.0084**	**0.0035**	<0.025	**55**
trans-1,2-DCE	29	<0.001	<0.001 CAL1	<0.001	<0.001	<0.001	<0.025	<0.5
TCE	1.9	**0.12**	<0.001	**0.0416**	**0.0392**	**0.0014**	**2.79**	<0.5
Vinyl chloride	0.052	**0.0032**	<0.001	**0.0075**	**0.0092**	**0.0072**	**0.0882**	<0.5
TPH								
TPH-GRO	5	<0.4	NA	<0.4	<0.4	<0.4	**1.2**	**13.9**
TPH-DRO	5	**1.9**	<0.2	**4.9**	NA	**7.3**	NA	**21.4**
Site Metals								
Cadmium, total	0.009 [1]	<0.0025	NA	<0.0025	<0.0025	**0.0085**	**0.0026**	**0.0180**
Chromium, total	0.3	**0.302**	NA	**0.0266**	**0.0487**	<0.0050	**0.0388**	**19.3**
Copper, total	0.09	<0.0050	NA	**0.0073**	**0.0112**	<0.0050	**0.0421**	**2.43**
Nickel, total	0.2	**0.423**	NA	**2.58**	**3.21**	**0.117**	**0.0524**	**14.0**
Zinc, total	0.9	**0.0214**	NA	**0.0475**	**0.0730**	**0.0470**	**0.116**	**4.32**

Concentrations in mg/L
(1) Cadmium background average
NA Not analyzed
bold Constituent detected; highlight - constituent exceeds target
CAL1 Analyte quantified by quadratic equation type calibration

Table 3
Summary of Constituents Detected in South End Groundwater (May 2009)
(protective of facility workers exposure to vapors in indoor air)

PARAMETER	CLEAN-UP GOAL SOUTH END	COMPLIANCE WELLS					
		MW-66S 05/14/09	PMP-05 05/07/09	PMP-06 05/07/09	PMP-07 05/07/09	MW-12I 05/12/09	MW-12S 05/12/09
VOCs							
1,1-DCA	50	<0.001	<0.001	<0.025	<0.01	<0.005	<0.001
1,1-DCE	26	<0.001	<0.001	<0.025	<0.01	<0.005	<0.001
1,2-DCA	0.52	<0.001	**0.0025**	<0.025	<0.01	<0.005	<0.001
Acetone	50	<0.01	<0.01	<0.25	**0.213**	<0.05	<0.01
Benzene	50	<0.001	**0.0012**	<0.025	**<0.01**	<0.005	<0.001
Bromomethane	2.4	<0.002	<0.002	<0.05	**0.0641**	<0.01	<0.002
Chloroethane	NA	<0.002	<0.002	<0.05	<0.02	<0.01	<0.002
Chloroform	3.4	<0.001	<0.001	<0.025	**0.0225**	<0.005	<0.001
Chloromethane	NA	<0.002	<0.002	**0.0795**	**0.608**	<0.01	<0.002
cis-1,2-DCE	33	<0.001	**0.0213**	0.522	**0.191**	**0.31**	<0.001
Ethylbenzene	5	<0.001	**0.0062**	<0.025	<0.01	<0.005	<0.001
Isopropylbenzene	NA	<0.001	**0.0037**	<0.025	<0.01	<0.005	<0.001
n-Butylbenzene	NA	<0.001	**0.0066**	<0.025	<0.01	<0.005	<0.001
n-Propylbenzene	NA	<0.001	**0.0081**	<0.025	<0.01	<0.005	<0.001
sec-Butylbenzene	NA	<0.001	**0.0044**	<0.025	<0.01	<0.005	<0.001
tert-Butlybenzene	NA	<0.001	**0.0016**	<0.025	<001	<0.005	<0.001
PCE	2. 8	<0.001	**0.0025**	**2.62**	**0.444**	**0.136**	<0.001
trans-1,2-DCE	29	<0.001	<0.001	<0.025	**0.0169**	<0.005	<0.001
TCE	1.9	<0.001	<0.001	**0.112**	**0.118**	**0.377**	<0.001
Vinyl chloride	0.052	<0.001	**0.0054**	**0.19**	**0.0406**	**0.0196**	<0.001
TPH							
TPH-GRO	5	<0.4	**1.2**	**0.4**	**0.6**	**0.5**	<0.4
TPH-DRO	5	NA	**10.5**	**3.9**	**3.0**	NA	<0.2
Site Metals							
Cadmium, total	0.009 [1]	<0.0025	**0.0028**	**0.0134**	**0.0251**	<0.0025	<0.0025
Chromium, total	0.3	<0.0050	**0.0764**	**0.513**	**27.4**	<0.0050	<0.0050
Copper, total	0.09	<0.0050	**0.0449**	**0.0065**	**1.85**	<0.0050	<0.0050
Nickel, total	0.2	**0.0078**	**0.234**	**2.81**	**32.4**	<0.0050	**0.0496**
Zinc, total	0.9	<0.0250	**0.0330**	**0.208**	**2.74**	**0.0132**	**0.0222**

Concentrations in mg/L
(1) Cadmium background average
NA Not analyzed
bold Constituent detected; highlight - constituent exceeds target
CAL1 Analyte quantified by quadratic equation type calibration