

Hit Summary Sheet
SW-846

SDG No.: Q2176

Order ID: Q2176

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-46								
Q2176-01	TP-46	SOIL	Aluminum	1980		0.82	4.86	mg/Kg
Q2176-01	TP-46	SOIL	Arsenic	4.40		0.19	0.97	mg/Kg
Q2176-01	TP-46	SOIL	Barium	9.70		0.71	4.86	mg/Kg
Q2176-01	TP-46	SOIL	Beryllium	0.84		0.024	0.29	mg/Kg
Q2176-01	TP-46	SOIL	Cadmium	1.73		0.023	0.29	mg/Kg
Q2176-01	TP-46	SOIL	Calcium	639		10.8	97.1	mg/Kg
Q2176-01	TP-46	SOIL	Chromium	0.63		0.046	0.49	mg/Kg
Q2176-01	TP-46	SOIL	Cobalt	2.85		0.097	1.46	mg/Kg
Q2176-01	TP-46	SOIL	Copper	10.9		0.21	0.97	mg/Kg
Q2176-01	TP-46	SOIL	Iron	51100		3.88	4.86	mg/Kg
Q2176-01	TP-46	SOIL	Lead	7.82		0.13	0.58	mg/Kg
Q2176-01	TP-46	SOIL	Magnesium	178		11.7	97.1	mg/Kg
Q2176-01	TP-46	SOIL	Manganese	18.2		0.14	0.97	mg/Kg
Q2176-01	TP-46	SOIL	Mercury	0.0090	J	0.0080	0.014	mg/Kg
Q2176-01	TP-46	SOIL	Nickel	3.40		0.13	1.94	mg/Kg
Q2176-01	TP-46	SOIL	Potassium	183		26.9	97.1	mg/Kg
Q2176-01	TP-46	SOIL	Sodium	143		17.3	97.1	mg/Kg
Q2176-01	TP-46	SOIL	Thallium	2.00		0.22	1.94	mg/Kg
Q2176-01	TP-46	SOIL	Vanadium	12.8		0.24	1.94	mg/Kg
Q2176-01	TP-46	SOIL	Zinc	63.0		0.22	1.94	mg/Kg
Client ID : TP-56								
Q2176-02	TP-56	SOIL	Aluminum	3310		0.87	5.16	mg/Kg
Q2176-02	TP-56	SOIL	Arsenic	7.72		0.20	1.03	mg/Kg
Q2176-02	TP-56	SOIL	Barium	14.2		0.75	5.16	mg/Kg
Q2176-02	TP-56	SOIL	Beryllium	0.62		0.026	0.31	mg/Kg
Q2176-02	TP-56	SOIL	Cadmium	0.89		0.025	0.31	mg/Kg
Q2176-02	TP-56	SOIL	Calcium	8050		11.4	103	mg/Kg
Q2176-02	TP-56	SOIL	Chromium	8.12		0.048	0.52	mg/Kg
Q2176-02	TP-56	SOIL	Cobalt	1.63		0.10	1.55	mg/Kg
Q2176-02	TP-56	SOIL	Copper	4.15		0.23	1.03	mg/Kg
Q2176-02	TP-56	SOIL	Iron	25000		4.11	5.16	mg/Kg
Q2176-02	TP-56	SOIL	Lead	7.64		0.13	0.62	mg/Kg
Q2176-02	TP-56	SOIL	Magnesium	1570		12.4	103	mg/Kg
Q2176-02	TP-56	SOIL	Manganese	22.4		0.14	1.03	mg/Kg
Q2176-02	TP-56	SOIL	Mercury	0.028		0.0090	0.016	mg/Kg
Q2176-02	TP-56	SOIL	Nickel	2.90		0.13	2.06	mg/Kg
Q2176-02	TP-56	SOIL	Potassium	357		28.6	103	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2176

Order ID: Q2176

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2176-02	TP-56	SOIL	Sodium	108		18.4	103	mg/Kg
Q2176-02	TP-56	SOIL	Thallium	0.64	J	0.24	2.06	mg/Kg
Q2176-02	TP-56	SOIL	Vanadium	18.7		0.26	2.06	mg/Kg
Q2176-02	TP-56	SOIL	Zinc	25.6		0.24	2.06	mg/Kg
Client ID : TP-25								
Q2176-03	TP-25	SOIL	Aluminum	6420		0.93	5.56	mg/Kg
Q2176-03	TP-25	SOIL	Arsenic	4.23		0.21	1.11	mg/Kg
Q2176-03	TP-25	SOIL	Barium	21.3		0.81	5.56	mg/Kg
Q2176-03	TP-25	SOIL	Beryllium	0.56		0.028	0.33	mg/Kg
Q2176-03	TP-25	SOIL	Cadmium	0.70		0.027	0.33	mg/Kg
Q2176-03	TP-25	SOIL	Calcium	486		12.3	111	mg/Kg
Q2176-03	TP-25	SOIL	Chromium	9.44		0.052	0.56	mg/Kg
Q2176-03	TP-25	SOIL	Cobalt	3.06		0.11	1.67	mg/Kg
Q2176-03	TP-25	SOIL	Copper	7.78		0.24	1.11	mg/Kg
Q2176-03	TP-25	SOIL	Iron	13300		4.43	5.56	mg/Kg
Q2176-03	TP-25	SOIL	Lead	14.3		0.14	0.67	mg/Kg
Q2176-03	TP-25	SOIL	Magnesium	730		13.3	111	mg/Kg
Q2176-03	TP-25	SOIL	Manganese	35.4		0.16	1.11	mg/Kg
Q2176-03	TP-25	SOIL	Mercury	0.028		0.0080	0.015	mg/Kg
Q2176-03	TP-25	SOIL	Nickel	5.98		0.14	2.22	mg/Kg
Q2176-03	TP-25	SOIL	Potassium	242		30.8	111	mg/Kg
Q2176-03	TP-25	SOIL	Sodium	119		19.8	111	mg/Kg
Q2176-03	TP-25	SOIL	Vanadium	20.1		0.28	2.22	mg/Kg
Q2176-03	TP-25	SOIL	Zinc	23.9		0.26	2.22	mg/Kg
Client ID : TP-26								
Q2176-04	TP-26	SOIL	Aluminum	5980		0.80	4.73	mg/Kg
Q2176-04	TP-26	SOIL	Antimony	0.23	J	0.21	2.37	mg/Kg
Q2176-04	TP-26	SOIL	Arsenic	3.50		0.18	0.95	mg/Kg
Q2176-04	TP-26	SOIL	Barium	44.3		0.69	4.73	mg/Kg
Q2176-04	TP-26	SOIL	Beryllium	0.40		0.024	0.28	mg/Kg
Q2176-04	TP-26	SOIL	Cadmium	0.86		0.023	0.28	mg/Kg
Q2176-04	TP-26	SOIL	Calcium	29300		10.5	94.7	mg/Kg
Q2176-04	TP-26	SOIL	Chromium	12.8		0.044	0.47	mg/Kg
Q2176-04	TP-26	SOIL	Cobalt	6.69		0.095	1.42	mg/Kg
Q2176-04	TP-26	SOIL	Copper	29.9		0.21	0.95	mg/Kg
Q2176-04	TP-26	SOIL	Iron	10800		3.78	4.73	mg/Kg
Q2176-04	TP-26	SOIL	Lead	54.0		0.12	0.57	mg/Kg
Q2176-04	TP-26	SOIL	Magnesium	5500		11.4	94.7	mg/Kg
Q2176-04	TP-26	SOIL	Manganese	174		0.13	0.95	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2176

Order ID: Q2176

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2176-04	TP-26	SOIL	Mercury	0.063		0.0080	0.015	mg/Kg
Q2176-04	TP-26	SOIL	Nickel	15.5		0.12	1.89	mg/Kg
Q2176-04	TP-26	SOIL	Potassium	754		26.2	94.7	mg/Kg
Q2176-04	TP-26	SOIL	Sodium	352		16.8	94.7	mg/Kg
Q2176-04	TP-26	SOIL	Vanadium	24.6		0.24	1.89	mg/Kg
Q2176-04	TP-26	SOIL	Zinc	56.2		0.22	1.89	mg/Kg

Client ID : TP-28

Q2176-05	TP-28	SOIL	Aluminum	5650		0.84	4.98	mg/Kg
Q2176-05	TP-28	SOIL	Arsenic	2.02		0.19	1.00	mg/Kg
Q2176-05	TP-28	SOIL	Barium	21.5		0.73	4.98	mg/Kg
Q2176-05	TP-28	SOIL	Beryllium	0.50		0.025	0.30	mg/Kg
Q2176-05	TP-28	SOIL	Cadmium	0.56		0.024	0.30	mg/Kg
Q2176-05	TP-28	SOIL	Calcium	203		11.0	99.5	mg/Kg
Q2176-05	TP-28	SOIL	Chromium	4.18		0.047	0.50	mg/Kg
Q2176-05	TP-28	SOIL	Cobalt	3.56		0.10	1.49	mg/Kg
Q2176-05	TP-28	SOIL	Copper	3.06		0.22	1.00	mg/Kg
Q2176-05	TP-28	SOIL	Iron	13400		3.97	4.98	mg/Kg
Q2176-05	TP-28	SOIL	Lead	9.53		0.13	0.60	mg/Kg
Q2176-05	TP-28	SOIL	Magnesium	228		11.9	99.5	mg/Kg
Q2176-05	TP-28	SOIL	Manganese	82.9		0.14	1.00	mg/Kg
Q2176-05	TP-28	SOIL	Mercury	0.016		0.0080	0.014	mg/Kg
Q2176-05	TP-28	SOIL	Nickel	3.55		0.13	1.99	mg/Kg
Q2176-05	TP-28	SOIL	Potassium	115		27.6	99.5	mg/Kg
Q2176-05	TP-28	SOIL	Sodium	139		17.7	99.5	mg/Kg
Q2176-05	TP-28	SOIL	Vanadium	12.3		0.25	1.99	mg/Kg
Q2176-05	TP-28	SOIL	Zinc	10.6		0.23	1.99	mg/Kg

Client ID : TP-27

Q2176-06	TP-27	SOIL	Aluminum	10300		0.95	5.68	mg/Kg
Q2176-06	TP-27	SOIL	Arsenic	1.86		0.22	1.14	mg/Kg
Q2176-06	TP-27	SOIL	Barium	10.2		0.83	5.68	mg/Kg
Q2176-06	TP-27	SOIL	Beryllium	0.62		0.028	0.34	mg/Kg
Q2176-06	TP-27	SOIL	Cadmium	0.43		0.027	0.34	mg/Kg
Q2176-06	TP-27	SOIL	Calcium	197		12.6	114	mg/Kg
Q2176-06	TP-27	SOIL	Chromium	6.49		0.053	0.57	mg/Kg
Q2176-06	TP-27	SOIL	Cobalt	4.96		0.11	1.70	mg/Kg
Q2176-06	TP-27	SOIL	Copper	4.19		0.25	1.14	mg/Kg
Q2176-06	TP-27	SOIL	Iron	10000		4.53	5.68	mg/Kg
Q2176-06	TP-27	SOIL	Lead	3.94		0.15	0.68	mg/Kg
Q2176-06	TP-27	SOIL	Magnesium	389		13.6	114	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2176

Order ID: Q2176

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2176-06	TP-27	SOIL	Manganese	96.0		0.16	1.14	mg/Kg
Q2176-06	TP-27	SOIL	Nickel	5.97		0.15	2.27	mg/Kg
Q2176-06	TP-27	SOIL	Potassium	131		31.4	114	mg/Kg
Q2176-06	TP-27	SOIL	Sodium	123		20.2	114	mg/Kg
Q2176-06	TP-27	SOIL	Vanadium	13.2		0.28	2.27	mg/Kg
Q2176-06	TP-27	SOIL	Zinc	13.9		0.26	2.27	mg/Kg

Client ID : TP-31

Q2176-07	TP-31	SOIL	Aluminum	6650		0.90	5.36	mg/Kg
Q2176-07	TP-31	SOIL	Arsenic	3.05		0.20	1.07	mg/Kg
Q2176-07	TP-31	SOIL	Barium	24.1		0.78	5.36	mg/Kg
Q2176-07	TP-31	SOIL	Beryllium	0.49		0.027	0.32	mg/Kg
Q2176-07	TP-31	SOIL	Cadmium	0.53		0.026	0.32	mg/Kg
Q2176-07	TP-31	SOIL	Calcium	354		11.9	107	mg/Kg
Q2176-07	TP-31	SOIL	Chromium	7.28		0.050	0.54	mg/Kg
Q2176-07	TP-31	SOIL	Cobalt	3.08		0.11	1.61	mg/Kg
Q2176-07	TP-31	SOIL	Copper	3.38		0.24	1.07	mg/Kg
Q2176-07	TP-31	SOIL	Iron	10800		4.28	5.36	mg/Kg
Q2176-07	TP-31	SOIL	Lead	6.08		0.14	0.64	mg/Kg
Q2176-07	TP-31	SOIL	Magnesium	510		12.9	107	mg/Kg
Q2176-07	TP-31	SOIL	Manganese	54.0		0.15	1.07	mg/Kg
Q2176-07	TP-31	SOIL	Mercury	0.015	J	0.0090	0.016	mg/Kg
Q2176-07	TP-31	SOIL	Nickel	4.81		0.14	2.14	mg/Kg
Q2176-07	TP-31	SOIL	Potassium	201		29.7	107	mg/Kg
Q2176-07	TP-31	SOIL	Sodium	606		19.1	107	mg/Kg
Q2176-07	TP-31	SOIL	Vanadium	16.4		0.27	2.14	mg/Kg
Q2176-07	TP-31	SOIL	Zinc	12.5		0.25	2.14	mg/Kg

Client ID : TP-65

Q2176-08	TP-65	SOIL	Aluminum	3850		0.86	5.09	mg/Kg
Q2176-08	TP-65	SOIL	Arsenic	2.11		0.19	1.02	mg/Kg
Q2176-08	TP-65	SOIL	Barium	21.5		0.74	5.09	mg/Kg
Q2176-08	TP-65	SOIL	Beryllium	0.49		0.025	0.31	mg/Kg
Q2176-08	TP-65	SOIL	Cadmium	0.22	J	0.024	0.31	mg/Kg
Q2176-08	TP-65	SOIL	Calcium	3400		11.3	102	mg/Kg
Q2176-08	TP-65	SOIL	Chromium	9.40		0.048	0.51	mg/Kg
Q2176-08	TP-65	SOIL	Cobalt	2.07		0.10	1.53	mg/Kg
Q2176-08	TP-65	SOIL	Copper	4.74		0.22	1.02	mg/Kg
Q2176-08	TP-65	SOIL	Iron	6200		4.06	5.09	mg/Kg
Q2176-08	TP-65	SOIL	Lead	18.8		0.13	0.61	mg/Kg
Q2176-08	TP-65	SOIL	Magnesium	1510		12.2	102	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2176

Order ID: Q2176

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2176-08	TP-65	SOIL	Manganese	31.0		0.14	1.02	mg/Kg
Q2176-08	TP-65	SOIL	Mercury	0.011	J	0.0080	0.014	mg/Kg
Q2176-08	TP-65	SOIL	Nickel	3.30		0.13	2.04	mg/Kg
Q2176-08	TP-65	SOIL	Potassium	218		28.2	102	mg/Kg
Q2176-08	TP-65	SOIL	Sodium	209		18.1	102	mg/Kg
Q2176-08	TP-65	SOIL	Vanadium	16.1		0.26	2.04	mg/Kg
Q2176-08	TP-65	SOIL	Zinc	12.6		0.23	2.04	mg/Kg