

Hit Summary Sheet
SW-846

SDG No.: Q2529 **Order ID:** Q2529
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-91								
Q2529-01	TP-91	SOIL	Aluminum	6380		0.82	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Arsenic	14.1		0.19	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Barium	14.3		0.71	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Beryllium	1.39		0.024	0.29	mg/Kg
Q2529-01	TP-91	SOIL	Chromium	13.0		0.046	0.49	mg/Kg
Q2529-01	TP-91	SOIL	Cobalt	2.63		0.097	1.46	mg/Kg
Q2529-01	TP-91	SOIL	Copper	6.67		0.21	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Iron	38900		3.88	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Lead	11.1		0.13	0.58	mg/Kg
Q2529-01	TP-91	SOIL	Magnesium	329		11.7	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Manganese	24.0		0.14	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Mercury	0.041		0.0080	0.015	mg/Kg
Q2529-01	TP-91	SOIL	Nickel	5.31		0.13	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Potassium	851		27.0	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Silver	0.28	J	0.12	0.49	mg/Kg
Q2529-01	TP-91	SOIL	Sodium	422		17.3	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Thallium	1.56	J	0.22	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Vanadium	36.0		0.24	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Zinc	29.3		0.22	1.95	mg/Kg
Client ID : TP-80								
Q2529-02	TP-80	SOIL	Aluminum	5340		0.77	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Arsenic	5.90		0.18	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Barium	16.7		0.67	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Beryllium	0.60		0.023	0.28	mg/Kg
Q2529-02	TP-80	SOIL	Cadmium	0.14	J	0.022	0.28	mg/Kg
Q2529-02	TP-80	SOIL	Calcium	552		10.2	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Chromium	17.3		0.043	0.46	mg/Kg
Q2529-02	TP-80	SOIL	Cobalt	2.83		0.092	1.38	mg/Kg
Q2529-02	TP-80	SOIL	Copper	7.87		0.20	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Iron	15900		3.67	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Lead	15.1		0.12	0.55	mg/Kg
Q2529-02	TP-80	SOIL	Magnesium	662		11.0	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Manganese	38.8		0.13	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Mercury	0.060		0.0080	0.015	mg/Kg
Q2529-02	TP-80	SOIL	Nickel	5.05		0.12	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Potassium	271		25.5	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Sodium	352		16.4	91.9	mg/Kg

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Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-02	TP-80	SOIL	Thallium	0.23	J	0.21	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Vanadium	25.0		0.23	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Zinc	18.1		0.21	1.84	mg/Kg
Client ID : TP-79								
Q2529-03	TP-79	SOIL	Aluminum	8420		0.81	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Arsenic	7.49		0.18	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Barium	14.5		0.71	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Beryllium	0.81		0.024	0.29	mg/Kg
Q2529-03	TP-79	SOIL	Calcium	48.7	J	10.8	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Chromium	20.2		0.046	0.48	mg/Kg
Q2529-03	TP-79	SOIL	Cobalt	3.56		0.097	1.45	mg/Kg
Q2529-03	TP-79	SOIL	Copper	4.83		0.21	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Iron	22300		3.86	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Lead	7.21		0.13	0.58	mg/Kg
Q2529-03	TP-79	SOIL	Magnesium	397		11.6	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Manganese	43.2		0.14	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Mercury	0.063		0.0090	0.015	mg/Kg
Q2529-03	TP-79	SOIL	Nickel	6.07		0.13	1.94	mg/Kg
Q2529-03	TP-79	SOIL	Potassium	377		26.8	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Silver	0.23	J	0.12	0.48	mg/Kg
Q2529-03	TP-79	SOIL	Sodium	465		17.2	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Vanadium	34.4		0.24	1.94	mg/Kg
Q2529-03	TP-79	SOIL	Zinc	18.7		0.22	1.94	mg/Kg
Client ID : TP-95								
Q2529-04	TP-95	SOIL	Aluminum	10700		0.92	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Arsenic	8.96		0.21	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Barium	133		0.80	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Beryllium	0.80		0.027	0.33	mg/Kg
Q2529-04	TP-95	SOIL	Chromium	12.4		0.051	0.55	mg/Kg
Q2529-04	TP-95	SOIL	Cobalt	4.08		0.11	1.64	mg/Kg
Q2529-04	TP-95	SOIL	Copper	6.77		0.24	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Iron	21300		4.35	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Lead	206		0.14	0.66	mg/Kg
Q2529-04	TP-95	SOIL	Magnesium	955		13.1	109	mg/Kg
Q2529-04	TP-95	SOIL	Manganese	66.4		0.15	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Mercury	0.11		0.0090	0.016	mg/Kg
Q2529-04	TP-95	SOIL	Nickel	7.68		0.14	2.18	mg/Kg
Q2529-04	TP-95	SOIL	Potassium	380		30.2	109	mg/Kg
Q2529-04	TP-95	SOIL	Silver	0.27	J	0.13	0.55	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-04	TP-95	SOIL	Sodium	309		19.4	109	mg/Kg
Q2529-04	TP-95	SOIL	Vanadium	29.3		0.27	2.18	mg/Kg
Q2529-04	TP-95	SOIL	Zinc	53.1		0.25	2.18	mg/Kg
Client ID : TP-98								
Q2529-05	TP-98	SOIL	Aluminum	7580		0.79	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Arsenic	7.69		0.18	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Barium	23.1		0.69	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Beryllium	0.72		0.024	0.28	mg/Kg
Q2529-05	TP-98	SOIL	Cadmium	0.13	J	0.023	0.28	mg/Kg
Q2529-05	TP-98	SOIL	Calcium	47.5	J	10.5	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Chromium	9.49		0.044	0.47	mg/Kg
Q2529-05	TP-98	SOIL	Cobalt	4.26		0.094	1.41	mg/Kg
Q2529-05	TP-98	SOIL	Copper	5.76		0.21	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Iron	16800		3.76	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Lead	11.4		0.12	0.57	mg/Kg
Q2529-05	TP-98	SOIL	Magnesium	647		11.3	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Manganese	89.8		0.13	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Mercury	0.078		0.0080	0.015	mg/Kg
Q2529-05	TP-98	SOIL	Nickel	6.52		0.12	1.89	mg/Kg
Q2529-05	TP-98	SOIL	Potassium	274		26.1	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Sodium	207		16.8	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Vanadium	23.6		0.24	1.89	mg/Kg
Q2529-05	TP-98	SOIL	Zinc	20.9		0.22	1.89	mg/Kg
Client ID : TP-102								
Q2529-06	TP-102	SOIL	Aluminum	2060		0.77	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Arsenic	2.65		0.17	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Barium	8.89		0.67	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Beryllium	0.36		0.023	0.27	mg/Kg
Q2529-06	TP-102	SOIL	Calcium	41.6	J	10.1	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Chromium	3.17		0.043	0.46	mg/Kg
Q2529-06	TP-102	SOIL	Cobalt	1.54		0.091	1.37	mg/Kg
Q2529-06	TP-102	SOIL	Copper	2.26		0.20	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Iron	9030		3.65	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Lead	2.41		0.12	0.55	mg/Kg
Q2529-06	TP-102	SOIL	Magnesium	158		11.0	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Manganese	30.5		0.13	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Nickel	1.60	J	0.12	1.83	mg/Kg
Q2529-06	TP-102	SOIL	Potassium	142		25.3	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Sodium	210		16.3	91.4	mg/Kg

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Q2529-06	TP-102	SOIL	Vanadium	13.2		0.23	1.83	mg/Kg
Q2529-06	TP-102	SOIL	Zinc	7.14		0.21	1.83	mg/Kg
Client ID : TP-101								
Q2529-07	TP-101	SOIL	Aluminum	13500		0.81	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Arsenic	4.58		0.18	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Barium	74.2		0.71	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Beryllium	1.15		0.024	0.29	mg/Kg
Q2529-07	TP-101	SOIL	Cadmium	0.057	J	0.023	0.29	mg/Kg
Q2529-07	TP-101	SOIL	Chromium	6.21		0.045	0.48	mg/Kg
Q2529-07	TP-101	SOIL	Cobalt	4.62		0.097	1.45	mg/Kg
Q2529-07	TP-101	SOIL	Copper	2.57		0.21	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Iron	18500		3.85	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Lead	4.60		0.13	0.58	mg/Kg
Q2529-07	TP-101	SOIL	Magnesium	184		11.6	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Manganese	42.9		0.14	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Mercury	0.030		0.0080	0.015	mg/Kg
Q2529-07	TP-101	SOIL	Nickel	7.84		0.13	1.93	mg/Kg
Q2529-07	TP-101	SOIL	Potassium	168		26.7	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Silver	0.12	J	0.12	0.48	mg/Kg
Q2529-07	TP-101	SOIL	Sodium	240		17.2	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Vanadium	18.2		0.24	1.93	mg/Kg
Q2529-07	TP-101	SOIL	Zinc	17.8		0.22	1.93	mg/Kg
Client ID : TP-89								
Q2529-08	TP-89	SOIL	Aluminum	8870		0.84	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Arsenic	6.60		0.19	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Barium	14.2		0.73	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Beryllium	0.63		0.025	0.30	mg/Kg
Q2529-08	TP-89	SOIL	Calcium	289		11.0	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Chromium	15.8		0.047	0.50	mg/Kg
Q2529-08	TP-89	SOIL	Cobalt	1.74		0.10	1.49	mg/Kg
Q2529-08	TP-89	SOIL	Copper	3.87		0.22	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Iron	17600		3.97	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Lead	5.91		0.13	0.60	mg/Kg
Q2529-08	TP-89	SOIL	Magnesium	207		11.9	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Manganese	17.4		0.14	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Mercury	0.042		0.0090	0.016	mg/Kg
Q2529-08	TP-89	SOIL	Nickel	3.57		0.13	1.99	mg/Kg
Q2529-08	TP-89	SOIL	Potassium	394		27.6	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Sodium	392		17.7	99.5	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-08	TP-89	SOIL	Vanadium	44.6		0.25	1.99	mg/Kg
Q2529-08	TP-89	SOIL	Zinc	8.81		0.23	1.99	mg/Kg
Client ID : TP-33								
Q2529-09	TP-33	SOIL	Aluminum	9180		0.80	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Arsenic	2.79		0.18	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Barium	34.9		0.70	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Beryllium	0.74		0.024	0.29	mg/Kg
Q2529-09	TP-33	SOIL	Chromium	3.67		0.045	0.48	mg/Kg
Q2529-09	TP-33	SOIL	Cobalt	4.00		0.096	1.44	mg/Kg
Q2529-09	TP-33	SOIL	Copper	2.30		0.21	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Iron	11900		3.82	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Lead	3.50		0.12	0.57	mg/Kg
Q2529-09	TP-33	SOIL	Magnesium	281		11.5	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Manganese	305		0.13	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Mercury	0.011	J	0.0070	0.013	mg/Kg
Q2529-09	TP-33	SOIL	Nickel	5.08		0.12	1.91	mg/Kg
Q2529-09	TP-33	SOIL	Potassium	155		26.5	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Sodium	275		17.0	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Vanadium	16.3		0.24	1.91	mg/Kg
Q2529-09	TP-33	SOIL	Zinc	17.0		0.22	1.91	mg/Kg
Client ID : TP-30								
Q2529-10	TP-30	SOIL	Aluminum	6310		0.86	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Arsenic	4.59		0.19	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Barium	4.62	J	0.74	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Beryllium	0.93		0.025	0.31	mg/Kg
Q2529-10	TP-30	SOIL	Chromium	5.90		0.048	0.51	mg/Kg
Q2529-10	TP-30	SOIL	Cobalt	5.07		0.10	1.53	mg/Kg
Q2529-10	TP-30	SOIL	Copper	2.43		0.22	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Iron	13800		4.06	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Lead	2.66		0.13	0.61	mg/Kg
Q2529-10	TP-30	SOIL	Magnesium	128		12.2	102	mg/Kg
Q2529-10	TP-30	SOIL	Manganese	112		0.14	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Mercury	0.020		0.0080	0.014	mg/Kg
Q2529-10	TP-30	SOIL	Nickel	5.95		0.13	2.04	mg/Kg
Q2529-10	TP-30	SOIL	Potassium	68.5	J	28.2	102	mg/Kg
Q2529-10	TP-30	SOIL	Sodium	154		18.1	102	mg/Kg
Q2529-10	TP-30	SOIL	Vanadium	16.2		0.25	2.04	mg/Kg
Q2529-10	TP-30	SOIL	Zinc	15.6		0.23	2.04	mg/Kg