



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: O1232

Order ID: O1232

Client: Louis Berger U.S., Inc., A WSP Company

Project ID: NYCDDC Phase II SCI Arthur Kill Road C

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-P17A								
O1232-01	B-P17A	SOIL	Aluminum	2510		2.30	5.20	mg/Kg
O1232-01	B-P17A	SOIL	Antimony	0.37	J	0.37	2.60	mg/Kg
O1232-01	B-P17A	SOIL	Arsenic	1.07		0.22	1.04	mg/Kg
O1232-01	B-P17A	SOIL	Barium	33.0		0.75	5.20	mg/Kg
O1232-01	B-P17A	SOIL	Beryllium	0.28	J	0.022	0.31	mg/Kg
O1232-01	B-P17A	SOIL	Cadmium	0.13	J	0.028	0.31	mg/Kg
O1232-01	B-P17A	SOIL	Calcium	1460		7.43	104	mg/Kg
O1232-01	B-P17A	SOIL	Chromium	11.7		0.094	0.52	mg/Kg
O1232-01	B-P17A	SOIL	Cobalt	4.76		0.078	1.56	mg/Kg
O1232-01	B-P17A	SOIL	Copper	8.92		0.44	1.04	mg/Kg
O1232-01	B-P17A	SOIL	Iron	8860		4.09	5.20	mg/Kg
O1232-01	B-P17A	SOIL	Lead	7.47		0.27	0.62	mg/Kg
O1232-01	B-P17A	SOIL	Magnesium	1820		9.48	104	mg/Kg
O1232-01	B-P17A	SOIL	Manganese	288		0.11	1.04	mg/Kg
O1232-01	B-P17A	SOIL	Nickel	22.9		0.19	2.08	mg/Kg
O1232-01	B-P17A	SOIL	Potassium	556		24.2	104	mg/Kg
O1232-01	B-P17A	SOIL	Silver	0.58		0.081	0.52	mg/Kg
O1232-01	B-P17A	SOIL	Sodium	52.5	J	24.3	104	mg/Kg
O1232-01	B-P17A	SOIL	Vanadium	9.25		0.33	2.08	mg/Kg
O1232-01	B-P17A	SOIL	Zinc	18.7		0.21	2.08	mg/Kg
Client ID : B-P17B								
O1232-02	B-P17B	SOIL	Aluminum	2060		2.13	4.81	mg/Kg
O1232-02	B-P17B	SOIL	Arsenic	0.66	J	0.20	0.96	mg/Kg
O1232-02	B-P17B	SOIL	Barium	27.6		0.69	4.81	mg/Kg
O1232-02	B-P17B	SOIL	Beryllium	0.23	J	0.020	0.29	mg/Kg
O1232-02	B-P17B	SOIL	Cadmium	0.094	J	0.026	0.29	mg/Kg
O1232-02	B-P17B	SOIL	Calcium	3480		6.88	96.3	mg/Kg
O1232-02	B-P17B	SOIL	Chromium	6.61		0.087	0.48	mg/Kg
O1232-02	B-P17B	SOIL	Cobalt	3.33		0.072	1.44	mg/Kg
O1232-02	B-P17B	SOIL	Copper	5.83		0.40	0.96	mg/Kg
O1232-02	B-P17B	SOIL	Iron	6700		3.78	4.81	mg/Kg
O1232-02	B-P17B	SOIL	Lead	3.48		0.25	0.58	mg/Kg
O1232-02	B-P17B	SOIL	Magnesium	1550		8.77	96.3	mg/Kg
O1232-02	B-P17B	SOIL	Manganese	147		0.11	0.96	mg/Kg
O1232-02	B-P17B	SOIL	Mercury	0.013	J	0.0040	0.015	mg/Kg
O1232-02	B-P17B	SOIL	Nickel	13.4		0.17	1.93	mg/Kg
O1232-02	B-P17B	SOIL	Potassium	558		22.4	96.3	mg/Kg
O1232-02	B-P17B	SOIL	Silver	0.43	J	0.075	0.48	mg/Kg

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Project ID: NYCDDC Phase II SCI Arthur Kill Road C

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O1232-02	B-P17B	SOIL	Sodium	63.3	J	22.5	96.3	mg/Kg
O1232-02	B-P17B	SOIL	Vanadium	9.32		0.31	1.93	mg/Kg
O1232-02	B-P17B	SOIL	Zinc	15.1		0.19	1.93	mg/Kg
Client ID : B-P18A								
O1232-04	B-P18A	SOIL	Aluminum	4820		2.18	4.93	mg/Kg
O1232-04	B-P18A	SOIL	Antimony	1.33	J	0.35	2.46	mg/Kg
O1232-04	B-P18A	SOIL	Arsenic	3.02		0.21	0.99	mg/Kg
O1232-04	B-P18A	SOIL	Barium	21.1		0.71	4.93	mg/Kg
O1232-04	B-P18A	SOIL	Beryllium	0.58		0.021	0.30	mg/Kg
O1232-04	B-P18A	SOIL	Cadmium	0.90		0.027	0.30	mg/Kg
O1232-04	B-P18A	SOIL	Calcium	756		7.03	98.5	mg/Kg
O1232-04	B-P18A	SOIL	Chromium	68.5		0.089	0.49	mg/Kg
O1232-04	B-P18A	SOIL	Cobalt	12.7		0.074	1.48	mg/Kg
O1232-04	B-P18A	SOIL	Copper	24.2		0.41	0.99	mg/Kg
O1232-04	B-P18A	SOIL	Iron	28000		3.87	4.93	mg/Kg
O1232-04	B-P18A	SOIL	Lead	18.6		0.26	0.59	mg/Kg
O1232-04	B-P18A	SOIL	Magnesium	2000		8.98	98.5	mg/Kg
O1232-04	B-P18A	SOIL	Manganese	253		0.11	0.99	mg/Kg
O1232-04	B-P18A	SOIL	Mercury	0.021		0.0040	0.015	mg/Kg
O1232-04	B-P18A	SOIL	Nickel	66.5		0.18	1.97	mg/Kg
O1232-04	B-P18A	SOIL	Potassium	769		23.0	98.5	mg/Kg
O1232-04	B-P18A	SOIL	Silver	1.39		0.077	0.49	mg/Kg
O1232-04	B-P18A	SOIL	Sodium	187		23.1	98.5	mg/Kg
O1232-04	B-P18A	SOIL	Vanadium	52.7		0.32	1.97	mg/Kg
O1232-04	B-P18A	SOIL	Zinc	55.5		0.20	1.97	mg/Kg
Client ID : B-P18B								
O1232-05	B-P18B	SOIL	Aluminum	4010		2.28	5.16	mg/Kg
O1232-05	B-P18B	SOIL	Antimony	0.93	J	0.36	2.58	mg/Kg
O1232-05	B-P18B	SOIL	Arsenic	1.94		0.22	1.03	mg/Kg
O1232-05	B-P18B	SOIL	Barium	45.9		0.74	5.16	mg/Kg
O1232-05	B-P18B	SOIL	Beryllium	0.58		0.022	0.31	mg/Kg
O1232-05	B-P18B	SOIL	Cadmium	0.59		0.028	0.31	mg/Kg
O1232-05	B-P18B	SOIL	Calcium	1460		7.37	103	mg/Kg
O1232-05	B-P18B	SOIL	Chromium	58.7		0.093	0.52	mg/Kg
O1232-05	B-P18B	SOIL	Cobalt	14.5		0.077	1.55	mg/Kg
O1232-05	B-P18B	SOIL	Copper	14.9		0.43	1.03	mg/Kg
O1232-05	B-P18B	SOIL	Iron	20500		4.06	5.16	mg/Kg
O1232-05	B-P18B	SOIL	Lead	11.8		0.27	0.62	mg/Kg
O1232-05	B-P18B	SOIL	Magnesium	5930		9.40	103	mg/Kg
O1232-05	B-P18B	SOIL	Manganese	345		0.11	1.03	mg/Kg
O1232-05	B-P18B	SOIL	Mercury	0.0040	J	0.0030	0.013	mg/Kg

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O1232-05	B-P18B	SOIL	Nickel	151		0.19	2.06	mg/Kg
O1232-05	B-P18B	SOIL	Potassium	809		24.0	103	mg/Kg
O1232-05	B-P18B	SOIL	Silver	1.12		0.081	0.52	mg/Kg
O1232-05	B-P18B	SOIL	Sodium	143		24.2	103	mg/Kg
O1232-05	B-P18B	SOIL	Vanadium	26.7		0.33	2.06	mg/Kg
O1232-05	B-P18B	SOIL	Zinc	38.9		0.21	2.06	mg/Kg
Client ID : B-P19A								
O1232-06	B-P19A	SOIL	Aluminum	5220		2.48	5.61	mg/Kg
O1232-06	B-P19A	SOIL	Antimony	0.73	J	0.40	2.81	mg/Kg
O1232-06	B-P19A	SOIL	Arsenic	3.88		0.24	1.12	mg/Kg
O1232-06	B-P19A	SOIL	Barium	42.8		0.81	5.61	mg/Kg
O1232-06	B-P19A	SOIL	Beryllium	0.49		0.024	0.34	mg/Kg
O1232-06	B-P19A	SOIL	Cadmium	0.42		0.030	0.34	mg/Kg
O1232-06	B-P19A	SOIL	Calcium	1150		8.02	112	mg/Kg
O1232-06	B-P19A	SOIL	Chromium	21.6		0.10	0.56	mg/Kg
O1232-06	B-P19A	SOIL	Cobalt	9.75		0.084	1.68	mg/Kg
O1232-06	B-P19A	SOIL	Copper	21.1		0.47	1.12	mg/Kg
O1232-06	B-P19A	SOIL	Iron	15600		4.41	5.61	mg/Kg
O1232-06	B-P19A	SOIL	Lead	30.5		0.29	0.67	mg/Kg
O1232-06	B-P19A	SOIL	Magnesium	2490		10.2	112	mg/Kg
O1232-06	B-P19A	SOIL	Manganese	301		0.12	1.12	mg/Kg
O1232-06	B-P19A	SOIL	Mercury	0.051		0.0040	0.016	mg/Kg
O1232-06	B-P19A	SOIL	Nickel	69.5		0.20	2.25	mg/Kg
O1232-06	B-P19A	SOIL	Potassium	898		26.2	112	mg/Kg
O1232-06	B-P19A	SOIL	Silver	0.97		0.088	0.56	mg/Kg
O1232-06	B-P19A	SOIL	Sodium	154		26.3	112	mg/Kg
O1232-06	B-P19A	SOIL	Vanadium	20.5		0.36	2.25	mg/Kg
O1232-06	B-P19A	SOIL	Zinc	41.8		0.23	2.25	mg/Kg
Client ID : B-P19B								
O1232-07	B-P19B	SOIL	Aluminum	4950		2.40	5.44	mg/Kg
O1232-07	B-P19B	SOIL	Arsenic	4.24		0.23	1.09	mg/Kg
O1232-07	B-P19B	SOIL	Barium	62.4		0.78	5.44	mg/Kg
O1232-07	B-P19B	SOIL	Beryllium	0.64		0.023	0.33	mg/Kg
O1232-07	B-P19B	SOIL	Cadmium	0.38		0.029	0.33	mg/Kg
O1232-07	B-P19B	SOIL	Calcium	6200		7.76	109	mg/Kg
O1232-07	B-P19B	SOIL	Chromium	20.1		0.098	0.54	mg/Kg
O1232-07	B-P19B	SOIL	Cobalt	8.36		0.082	1.63	mg/Kg
O1232-07	B-P19B	SOIL	Copper	17.2		0.46	1.09	mg/Kg
O1232-07	B-P19B	SOIL	Iron	14700		4.27	5.44	mg/Kg
O1232-07	B-P19B	SOIL	Lead	42.0		0.28	0.65	mg/Kg
O1232-07	B-P19B	SOIL	Magnesium	3580		9.91	109	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O1232-07	B-P19B	SOIL	Manganese	299		0.12	1.09	mg/Kg
O1232-07	B-P19B	SOIL	Mercury	0.040		0.0040	0.015	mg/Kg
O1232-07	B-P19B	SOIL	Nickel	37.3		0.20	2.17	mg/Kg
O1232-07	B-P19B	SOIL	Potassium	942		25.3	109	mg/Kg
O1232-07	B-P19B	SOIL	Silver	0.89		0.085	0.54	mg/Kg
O1232-07	B-P19B	SOIL	Sodium	157		25.4	109	mg/Kg
O1232-07	B-P19B	SOIL	Vanadium	19.8		0.35	2.17	mg/Kg
O1232-07	B-P19B	SOIL	Zinc	48.6		0.22	2.17	mg/Kg

Client ID : B-P35A

O1232-08	B-P35A	SOIL	Aluminum	4840		2.07	4.68	mg/Kg
O1232-08	B-P35A	SOIL	Arsenic	2.03		0.20	0.94	mg/Kg
O1232-08	B-P35A	SOIL	Barium	27.4		0.67	4.68	mg/Kg
O1232-08	B-P35A	SOIL	Beryllium	0.49		0.020	0.28	mg/Kg
O1232-08	B-P35A	SOIL	Cadmium	0.22	J	0.025	0.28	mg/Kg
O1232-08	B-P35A	SOIL	Calcium	3250		6.68	93.6	mg/Kg
O1232-08	B-P35A	SOIL	Chromium	11.1		0.084	0.47	mg/Kg
O1232-08	B-P35A	SOIL	Cobalt	5.95		0.070	1.40	mg/Kg
O1232-08	B-P35A	SOIL	Copper	13.3		0.39	0.94	mg/Kg
O1232-08	B-P35A	SOIL	Iron	12100		3.68	4.68	mg/Kg
O1232-08	B-P35A	SOIL	Lead	10.3		0.24	0.56	mg/Kg
O1232-08	B-P35A	SOIL	Magnesium	3740		8.53	93.6	mg/Kg
O1232-08	B-P35A	SOIL	Manganese	252		0.10	0.94	mg/Kg
O1232-08	B-P35A	SOIL	Mercury	0.0040	J	0.0030	0.013	mg/Kg
O1232-08	B-P35A	SOIL	Nickel	27.8		0.17	1.87	mg/Kg
O1232-08	B-P35A	SOIL	Potassium	822		21.8	93.6	mg/Kg
O1232-08	B-P35A	SOIL	Silver	0.73		0.073	0.47	mg/Kg
O1232-08	B-P35A	SOIL	Sodium	73.8	J	21.9	93.6	mg/Kg
O1232-08	B-P35A	SOIL	Vanadium	13.2		0.30	1.87	mg/Kg
O1232-08	B-P35A	SOIL	Zinc	24.9		0.19	1.87	mg/Kg

Client ID : B-P35B

O1232-09	B-P35B	SOIL	Aluminum	3720		2.29	5.18	mg/Kg
O1232-09	B-P35B	SOIL	Arsenic	1.99		0.22	1.04	mg/Kg
O1232-09	B-P35B	SOIL	Barium	28.7		0.75	5.18	mg/Kg
O1232-09	B-P35B	SOIL	Beryllium	0.45		0.022	0.31	mg/Kg
O1232-09	B-P35B	SOIL	Cadmium	0.17	J	0.028	0.31	mg/Kg
O1232-09	B-P35B	SOIL	Calcium	7290		7.39	104	mg/Kg
O1232-09	B-P35B	SOIL	Chromium	13.3		0.093	0.52	mg/Kg
O1232-09	B-P35B	SOIL	Cobalt	6.41		0.078	1.55	mg/Kg
O1232-09	B-P35B	SOIL	Copper	9.23		0.44	1.04	mg/Kg
O1232-09	B-P35B	SOIL	Iron	11000		4.07	5.18	mg/Kg
O1232-09	B-P35B	SOIL	Lead	5.30		0.27	0.62	mg/Kg



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Project ID: NYCDDC Phase II SCI Arthur Kill Road C

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O1232-09	B-P35B	SOIL	Magnesium	5750		9.43	104	mg/Kg
O1232-09	B-P35B	SOIL	Manganese	281		0.11	1.04	mg/Kg
O1232-09	B-P35B	SOIL	Nickel	32.9		0.19	2.07	mg/Kg
O1232-09	B-P35B	SOIL	Potassium	667		24.1	104	mg/Kg
O1232-09	B-P35B	SOIL	Silver	0.65		0.081	0.52	mg/Kg
O1232-09	B-P35B	SOIL	Sodium	151		24.2	104	mg/Kg
O1232-09	B-P35B	SOIL	Vanadium	11.9		0.33	2.07	mg/Kg
O1232-09	B-P35B	SOIL	Zinc	22.6		0.21	2.07	mg/Kg

Client ID : DUP01

O1232-10	DUP01	SOIL	Aluminum	4430		2.32	5.26	mg/Kg
O1232-10	DUP01	SOIL	Arsenic	4.09		0.22	1.05	mg/Kg
O1232-10	DUP01	SOIL	Barium	37.7		0.76	5.26	mg/Kg
O1232-10	DUP01	SOIL	Beryllium	0.80		0.022	0.32	mg/Kg
O1232-10	DUP01	SOIL	Cadmium	0.56		0.028	0.32	mg/Kg
O1232-10	DUP01	SOIL	Calcium	1520		7.51	105	mg/Kg
O1232-10	DUP01	SOIL	Chromium	45.3		0.095	0.53	mg/Kg
O1232-10	DUP01	SOIL	Cobalt	16.3		0.079	1.58	mg/Kg
O1232-10	DUP01	SOIL	Copper	18.9		0.44	1.05	mg/Kg
O1232-10	DUP01	SOIL	Iron	20100		4.13	5.26	mg/Kg
O1232-10	DUP01	SOIL	Lead	14.2		0.27	0.63	mg/Kg
O1232-10	DUP01	SOIL	Magnesium	3300		9.58	105	mg/Kg
O1232-10	DUP01	SOIL	Manganese	306		0.12	1.05	mg/Kg
O1232-10	DUP01	SOIL	Mercury	0.011	J	0.0040	0.015	mg/Kg
O1232-10	DUP01	SOIL	Nickel	118		0.19	2.10	mg/Kg
O1232-10	DUP01	SOIL	Potassium	968		24.5	105	mg/Kg
O1232-10	DUP01	SOIL	Silver	1.14		0.082	0.53	mg/Kg
O1232-10	DUP01	SOIL	Sodium	197		24.6	105	mg/Kg
O1232-10	DUP01	SOIL	Vanadium	27.6		0.34	2.10	mg/Kg
O1232-10	DUP01	SOIL	Zinc	99.6		0.21	2.10	mg/Kg