



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

Hit Summary Sheet
SW-846

SDG No.: O1233

Order ID: O1233

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-P34A								
O1233-02	B-P34A	SOIL	Aluminum	10800		2.44	5.53	mg/Kg
O1233-02	B-P34A	SOIL	Arsenic	7.51		0.23	1.11	mg/Kg
O1233-02	B-P34A	SOIL	Barium	39.6		0.80	5.53	mg/Kg
O1233-02	B-P34A	SOIL	Beryllium	0.68		0.023	0.33	mg/Kg
O1233-02	B-P34A	SOIL	Cadmium	0.13	J	0.030	0.33	mg/Kg
O1233-02	B-P34A	SOIL	Calcium	1060		7.90	111	mg/Kg
O1233-02	B-P34A	SOIL	Chromium	30.9		0.10	0.55	mg/Kg
O1233-02	B-P34A	SOIL	Cobalt	12.2		0.083	1.66	mg/Kg
O1233-02	B-P34A	SOIL	Copper	17.3		0.47	1.11	mg/Kg
O1233-02	B-P34A	SOIL	Iron	20900		4.35	5.53	mg/Kg
O1233-02	B-P34A	SOIL	Lead	19.1		0.29	0.66	mg/Kg
O1233-02	B-P34A	SOIL	Magnesium	2210		10.1	111	mg/Kg
O1233-02	B-P34A	SOIL	Manganese	286		0.12	1.11	mg/Kg
O1233-02	B-P34A	SOIL	Mercury	0.018		0.0040	0.015	mg/Kg
O1233-02	B-P34A	SOIL	Nickel	56.2		0.20	2.21	mg/Kg
O1233-02	B-P34A	SOIL	Potassium	715		25.8	111	mg/Kg
O1233-02	B-P34A	SOIL	Silver	1.24		0.086	0.55	mg/Kg
O1233-02	B-P34A	SOIL	Sodium	61.2	J	25.9	111	mg/Kg
O1233-02	B-P34A	SOIL	Vanadium	24.4		0.35	2.21	mg/Kg
O1233-02	B-P34A	SOIL	Zinc	46.0		0.22	2.21	mg/Kg
Client ID : B-P34B								
O1233-03	B-P34B	SOIL	Aluminum	3100		2.42	5.49	mg/Kg
O1233-03	B-P34B	SOIL	Arsenic	3.13		0.23	1.10	mg/Kg
O1233-03	B-P34B	SOIL	Barium	24.2		0.79	5.49	mg/Kg
O1233-03	B-P34B	SOIL	Beryllium	0.51		0.023	0.33	mg/Kg
O1233-03	B-P34B	SOIL	Cadmium	0.17	J	0.030	0.33	mg/Kg
O1233-03	B-P34B	SOIL	Calcium	1520		7.83	110	mg/Kg
O1233-03	B-P34B	SOIL	Chromium	54.3		0.099	0.55	mg/Kg
O1233-03	B-P34B	SOIL	Cobalt	9.66		0.082	1.65	mg/Kg
O1233-03	B-P34B	SOIL	Copper	7.54		0.46	1.10	mg/Kg
O1233-03	B-P34B	SOIL	Iron	10800		4.31	5.49	mg/Kg
O1233-03	B-P34B	SOIL	Lead	240		0.28	0.66	mg/Kg
O1233-03	B-P34B	SOIL	Magnesium	3560		9.99	110	mg/Kg
O1233-03	B-P34B	SOIL	Manganese	331		0.12	1.10	mg/Kg
O1233-03	B-P34B	SOIL	Mercury	0.0070	J	0.0030	0.014	mg/Kg
O1233-03	B-P34B	SOIL	Nickel	128		0.20	2.19	mg/Kg
O1233-03	B-P34B	SOIL	Potassium	620		25.6	110	mg/Kg
O1233-03	B-P34B	SOIL	Silver	0.60		0.086	0.55	mg/Kg

**Hit Summary Sheet**
SW-846**SDG No.:** O1233**Order ID:** O1233**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
O1233-03	B-P34B	SOIL	Sodium	117		25.7	110	mg/Kg
O1233-03	B-P34B	SOIL	Vanadium	10.3		0.35	2.19	mg/Kg
O1233-03	B-P34B	SOIL	Zinc	52.8		0.22	2.19	mg/Kg
Client ID : B-P36A								
O1233-04	B-P36A	SOIL	Aluminum	7380		2.25	5.10	mg/Kg
O1233-04	B-P36A	SOIL	Arsenic	8.08		0.21	1.02	mg/Kg
O1233-04	B-P36A	SOIL	Barium	60.2		0.73	5.10	mg/Kg
O1233-04	B-P36A	SOIL	Beryllium	0.82		0.021	0.31	mg/Kg
O1233-04	B-P36A	SOIL	Cadmium	0.63		0.028	0.31	mg/Kg
O1233-04	B-P36A	SOIL	Calcium	1650		7.28	102	mg/Kg
O1233-04	B-P36A	SOIL	Chromium	20.8		0.092	0.51	mg/Kg
O1233-04	B-P36A	SOIL	Cobalt	10.1		0.076	1.53	mg/Kg
O1233-04	B-P36A	SOIL	Copper	24.8		0.43	1.02	mg/Kg
O1233-04	B-P36A	SOIL	Iron	17500		4.01	5.10	mg/Kg
O1233-04	B-P36A	SOIL	Lead	69.2		0.27	0.61	mg/Kg
O1233-04	B-P36A	SOIL	Magnesium	3010		9.29	102	mg/Kg
O1233-04	B-P36A	SOIL	Manganese	202		0.11	1.02	mg/Kg
O1233-04	B-P36A	SOIL	Mercury	0.0070	J	0.0030	0.014	mg/Kg
O1233-04	B-P36A	SOIL	Nickel	53.4		0.18	2.04	mg/Kg
O1233-04	B-P36A	SOIL	Potassium	789		23.7	102	mg/Kg
O1233-04	B-P36A	SOIL	Silver	1.08		0.080	0.51	mg/Kg
O1233-04	B-P36A	SOIL	Sodium	89.6	J	23.9	102	mg/Kg
O1233-04	B-P36A	SOIL	Vanadium	20.7		0.33	2.04	mg/Kg
O1233-04	B-P36A	SOIL	Zinc	88.8		0.20	2.04	mg/Kg
Client ID : B-P36B								
O1233-05	B-P36B	SOIL	Aluminum	3890		2.26	5.12	mg/Kg
O1233-05	B-P36B	SOIL	Arsenic	1.69		0.22	1.02	mg/Kg
O1233-05	B-P36B	SOIL	Barium	24.5		0.74	5.12	mg/Kg
O1233-05	B-P36B	SOIL	Beryllium	0.40		0.022	0.31	mg/Kg
O1233-05	B-P36B	SOIL	Cadmium	0.18	J	0.028	0.31	mg/Kg
O1233-05	B-P36B	SOIL	Calcium	6970		7.31	102	mg/Kg
O1233-05	B-P36B	SOIL	Chromium	10.0		0.092	0.51	mg/Kg
O1233-05	B-P36B	SOIL	Cobalt	5.02		0.077	1.54	mg/Kg
O1233-05	B-P36B	SOIL	Copper	8.78		0.43	1.02	mg/Kg
O1233-05	B-P36B	SOIL	Iron	9590		4.03	5.12	mg/Kg
O1233-05	B-P36B	SOIL	Lead	5.23		0.27	0.62	mg/Kg
O1233-05	B-P36B	SOIL	Magnesium	4880		9.33	102	mg/Kg
O1233-05	B-P36B	SOIL	Manganese	261		0.11	1.02	mg/Kg
O1233-05	B-P36B	SOIL	Nickel	15.9		0.18	2.05	mg/Kg
O1233-05	B-P36B	SOIL	Potassium	603		23.9	102	mg/Kg
O1233-05	B-P36B	SOIL	Silver	0.56		0.080	0.51	mg/Kg

**Hit Summary Sheet**
SW-846**SDG No.:** O1233**Order ID:** O1233**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
O1233-05	B-P36B	SOIL	Sodium	156		24.0	102	mg/Kg
O1233-05	B-P36B	SOIL	Vanadium	11.6		0.33	2.05	mg/Kg
O1233-05	B-P36B	SOIL	Zinc	19.8		0.21	2.05	mg/Kg

Client ID : B-P37A

O1233-06	B-P37A	SOIL	Aluminum	5130		2.24	5.08	mg/Kg
O1233-06	B-P37A	SOIL	Arsenic	4.27		0.21	1.02	mg/Kg
O1233-06	B-P37A	SOIL	Barium	47.5		0.73	5.08	mg/Kg
O1233-06	B-P37A	SOIL	Beryllium	0.60		0.021	0.31	mg/Kg
O1233-06	B-P37A	SOIL	Cadmium	0.40		0.027	0.31	mg/Kg
O1233-06	B-P37A	SOIL	Calcium	890		7.25	102	mg/Kg
O1233-06	B-P37A	SOIL	Chromium	18.1		0.091	0.51	mg/Kg
O1233-06	B-P37A	SOIL	Cobalt	9.11		0.076	1.52	mg/Kg
O1233-06	B-P37A	SOIL	Copper	29.7		0.43	1.02	mg/Kg
O1233-06	B-P37A	SOIL	Iron	13600		3.99	5.08	mg/Kg
O1233-06	B-P37A	SOIL	Lead	33.5		0.26	0.61	mg/Kg
O1233-06	B-P37A	SOIL	Magnesium	2200		9.25	102	mg/Kg
O1233-06	B-P37A	SOIL	Manganese	328		0.11	1.02	mg/Kg
O1233-06	B-P37A	SOIL	Mercury	0.032		0.0040	0.015	mg/Kg
O1233-06	B-P37A	SOIL	Nickel	54.5		0.18	2.03	mg/Kg
O1233-06	B-P37A	SOIL	Potassium	569		23.7	102	mg/Kg
O1233-06	B-P37A	SOIL	Silver	0.87		0.079	0.51	mg/Kg
O1233-06	B-P37A	SOIL	Sodium	71.8	J	23.8	102	mg/Kg
O1233-06	B-P37A	SOIL	Vanadium	17.5		0.33	2.03	mg/Kg
O1233-06	B-P37A	SOIL	Zinc	50.8		0.20	2.03	mg/Kg

Client ID : B-P37B

O1233-07	B-P37B	SOIL	Aluminum	4240		2.40	5.42	mg/Kg
O1233-07	B-P37B	SOIL	Arsenic	1.84		0.23	1.08	mg/Kg
O1233-07	B-P37B	SOIL	Barium	15.8		0.78	5.42	mg/Kg
O1233-07	B-P37B	SOIL	Beryllium	0.51		0.023	0.33	mg/Kg
O1233-07	B-P37B	SOIL	Cadmium	0.23	J	0.029	0.33	mg/Kg
O1233-07	B-P37B	SOIL	Calcium	1010		7.74	108	mg/Kg
O1233-07	B-P37B	SOIL	Chromium	14.6		0.098	0.54	mg/Kg
O1233-07	B-P37B	SOIL	Cobalt	6.49		0.081	1.63	mg/Kg
O1233-07	B-P37B	SOIL	Copper	14.4		0.46	1.08	mg/Kg
O1233-07	B-P37B	SOIL	Iron	13300		4.26	5.42	mg/Kg
O1233-07	B-P37B	SOIL	Lead	7.88		0.28	0.65	mg/Kg
O1233-07	B-P37B	SOIL	Magnesium	2070		9.87	108	mg/Kg
O1233-07	B-P37B	SOIL	Manganese	71.3		0.12	1.08	mg/Kg
O1233-07	B-P37B	SOIL	Mercury	0.021		0.0040	0.015	mg/Kg
O1233-07	B-P37B	SOIL	Nickel	37.7		0.20	2.17	mg/Kg
O1233-07	B-P37B	SOIL	Potassium	569		25.3	108	mg/Kg

**Hit Summary Sheet**
SW-846**SDG No.:** O1233**Order ID:** O1233**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
O1233-07	B-P37B	SOIL	Silver	0.82		0.085	0.54	mg/Kg
O1233-07	B-P37B	SOIL	Sodium	59.0	J	25.4	108	mg/Kg
O1233-07	B-P37B	SOIL	Vanadium	17.1		0.35	2.17	mg/Kg
O1233-07	B-P37B	SOIL	Zinc	29.3		0.22	2.17	mg/Kg

Client ID : B-P38A

O1233-08	B-P38A	SOIL	Aluminum	9770		2.07	4.69	mg/Kg
O1233-08	B-P38A	SOIL	Arsenic	5.73		0.20	0.94	mg/Kg
O1233-08	B-P38A	SOIL	Barium	54.3		0.68	4.69	mg/Kg
O1233-08	B-P38A	SOIL	Beryllium	0.93		0.020	0.28	mg/Kg
O1233-08	B-P38A	SOIL	Cadmium	0.79		0.025	0.28	mg/Kg
O1233-08	B-P38A	SOIL	Calcium	2820		6.69	93.7	mg/Kg
O1233-08	B-P38A	SOIL	Chromium	40.9		0.084	0.47	mg/Kg
O1233-08	B-P38A	SOIL	Cobalt	20.6		0.070	1.41	mg/Kg
O1233-08	B-P38A	SOIL	Copper	21.6		0.39	0.94	mg/Kg
O1233-08	B-P38A	SOIL	Iron	25800		3.68	4.69	mg/Kg
O1233-08	B-P38A	SOIL	Lead	25.0		0.24	0.56	mg/Kg
O1233-08	B-P38A	SOIL	Magnesium	4700		8.54	93.7	mg/Kg
O1233-08	B-P38A	SOIL	Manganese	872		0.10	0.94	mg/Kg
O1233-08	B-P38A	SOIL	Mercury	0.049		0.0040	0.015	mg/Kg
O1233-08	B-P38A	SOIL	Nickel	207		0.17	1.87	mg/Kg
O1233-08	B-P38A	SOIL	Potassium	877		21.8	93.7	mg/Kg
O1233-08	B-P38A	SOIL	Silver	1.67		0.073	0.47	mg/Kg
O1233-08	B-P38A	SOIL	Sodium	62.0	J	21.9	93.7	mg/Kg
O1233-08	B-P38A	SOIL	Vanadium	29.6		0.30	1.87	mg/Kg
O1233-08	B-P38A	SOIL	Zinc	47.9		0.19	1.87	mg/Kg

Client ID : B-P38B

O1233-09	B-P38B	SOIL	Aluminum	2410		2.41	5.46	mg/Kg
O1233-09	B-P38B	SOIL	Arsenic	4.14		0.23	1.09	mg/Kg
O1233-09	B-P38B	SOIL	Barium	41.9		0.79	5.46	mg/Kg
O1233-09	B-P38B	SOIL	Beryllium	0.66		0.023	0.33	mg/Kg
O1233-09	B-P38B	SOIL	Cadmium	0.37		0.029	0.33	mg/Kg
O1233-09	B-P38B	SOIL	Calcium	1190		7.80	109	mg/Kg
O1233-09	B-P38B	SOIL	Chromium	19.3		0.098	0.55	mg/Kg
O1233-09	B-P38B	SOIL	Cobalt	12.1		0.082	1.64	mg/Kg
O1233-09	B-P38B	SOIL	Copper	20.3		0.46	1.09	mg/Kg
O1233-09	B-P38B	SOIL	Iron	15000		4.29	5.46	mg/Kg
O1233-09	B-P38B	SOIL	Lead	9.01		0.28	0.66	mg/Kg
O1233-09	B-P38B	SOIL	Magnesium	5140		9.95	109	mg/Kg
O1233-09	B-P38B	SOIL	Manganese	391		0.12	1.09	mg/Kg
O1233-09	B-P38B	SOIL	Nickel	120		0.20	2.18	mg/Kg
O1233-09	B-P38B	SOIL	Potassium	640		25.4	109	mg/Kg



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

Hit Summary Sheet
SW-846

SDG No.: O1233

Order ID: O1233

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
O1233-09	B-P38B	SOIL	Silver	0.87		0.085	0.55	mg/Kg
O1233-09	B-P38B	SOIL	Sodium	75.2	J	25.5	109	mg/Kg
O1233-09	B-P38B	SOIL	Vanadium	14.3		0.35	2.18	mg/Kg
O1233-09	B-P38B	SOIL	Zinc	31.3		0.22	2.18	mg/Kg

Client ID : B-P38C

O1233-11	B-P38C	SOIL	Aluminum	2800		2.40	5.44	mg/Kg
O1233-11	B-P38C	SOIL	Arsenic	3.54		0.23	1.09	mg/Kg
O1233-11	B-P38C	SOIL	Barium	29.2		0.78	5.44	mg/Kg
O1233-11	B-P38C	SOIL	Beryllium	0.69		0.023	0.33	mg/Kg
O1233-11	B-P38C	SOIL	Cadmium	0.43		0.029	0.33	mg/Kg
O1233-11	B-P38C	SOIL	Calcium	549		7.77	109	mg/Kg
O1233-11	B-P38C	SOIL	Chromium	15.3		0.098	0.54	mg/Kg
O1233-11	B-P38C	SOIL	Cobalt	9.31		0.082	1.63	mg/Kg
O1233-11	B-P38C	SOIL	Copper	19.2		0.46	1.09	mg/Kg
O1233-11	B-P38C	SOIL	Iron	15000		4.28	5.44	mg/Kg
O1233-11	B-P38C	SOIL	Lead	9.68		0.28	0.65	mg/Kg
O1233-11	B-P38C	SOIL	Magnesium	2330		9.91	109	mg/Kg
O1233-11	B-P38C	SOIL	Manganese	551		0.12	1.09	mg/Kg
O1233-11	B-P38C	SOIL	Nickel	95.3		0.20	2.18	mg/Kg
O1233-11	B-P38C	SOIL	Potassium	692		25.4	109	mg/Kg
O1233-11	B-P38C	SOIL	Silver	0.87		0.085	0.54	mg/Kg
O1233-11	B-P38C	SOIL	Sodium	33.2	J	25.5	109	mg/Kg
O1233-11	B-P38C	SOIL	Vanadium	15.9		0.35	2.18	mg/Kg
O1233-11	B-P38C	SOIL	Zinc	33.2		0.22	2.18	mg/Kg