

## **Appendix J**

### **Clean Fill Documentation**

#### **J-1 Clean Fill Documentation - Dense-Graded Aggregate Load Reports**

#### **J-2 Quarry Information and Analytical Data Reports**

Remedial Action Report – Forrest Street Properties (AOC FSP-1C, AOC FSP-1D, AOC FSP-1E, AOC FSP-1F, AOC FSP-1G, AOC FSP-1H, AOC FSP-1I, AOC FSP-1J, and AOC FSP-1K) Soil, Current-Use, Final, Revision 2  
Garfield Avenue Group  
PPG, Jersey City, New Jersey

## **Appendix J-1 Clean Fill Documentation - Dense-Graded Aggregate Load Reports**

**Appendix J-1**  
**Clean Fill Documentation**  
**Dense-Graded Aggregate Load Reports**  
**Forrest Street Properties, Garfield Avenue Group**  
**PPG, Jersey City, New Jersey**

This appendix includes a list of the quarry material load reports for dense-graded aggregate (DGA) used for backfill and restoration at Forrest Street Properties, which is part of the Garfield Avenue Group Sites in Jersey City, New Jersey (NJ). The licensed material was supplied by Stavola Construction Materials, Inc. from their licensed mine facility at 409 Chimney Rock Road, Bridgewater, NJ, which is permitted to operate as a commercial quarry by the New Jersey Department of Environmental Protection.

<b>Forrest Street Properties</b>		
<b>Profile</b>	<b>Loads</b>	<b>Tons</b>
Dense-Graded Aggregate	2	46.97
<b>Total</b>	<b>2</b>	<b>46.97</b>

**Appendix J-1**  
**Clean Fill Documentation**  
**Dense-Graded Aggregate Load Reports**  
**Forrest Street Properties, Garfield Avenue Group**  
**PPG, Jersey City, New Jersey**

**Dense-Graded Aggregate (DGA)**

<b>Ship Date</b>	<b>Load</b>	<b>Ticket</b>	<b>Net Weight (tons)</b>	<b>Daily Tonnage</b>
12/7/2021	1	957345	24.03	24.03
12/8/2021	1	957698	22.94	22.94
<b>Total Tonnage =</b>			<b>46.97</b>	



## **Appendix J-2 Quarry Information and Analytical Data Reports**



**STAVOLA  
CONSTRUCTION  
MATERIALS, INC.**

P.O. Box 482  
Red Bank, NJ 07701  
732-542-2328 x 323  
732-389-0074 F

[rvannote@stavola.com](mailto:rvannote@stavola.com)

11/01/2021

To Whom it may concern,

We are currently crushing rock down to the following size products:

Screenings (#10)	3/8" Clean (#8)	3"- 5" Riprap
Common Fill	5/8" Clean (#67)	6"- 12" Core Stone
Finishing Stone	3/4" Clean (#57)	12"- 24" Army Core Stone
Washed Sand	1" Clean (#5)	I-5 Soil Aggregate
1/4" (#9)	1 1/2" Clean	D.G.A. (Dense Graded Aggregate)
I-9 Soil Aggregate	2 1/2" Clean	QP (Quarry Process)
I-14 Soil Aggregate	3" minus shale (redrock)	Ballast

Stavola Construction Materials, Inc. (S.C.M.I.) certifies all aggregate products are quarried and processed at our Bound Brook Quarry are from a virgin natural source of volcanic extrusive igneous basalt (also known as Traprock), natural to the region as well as a Red Shale product also natural to this region. The traprock and shale are not comingled together or with any other material, nor is it affected by conditions or processes that would result in the introduction of contaminants. There are no discharges of hazardous materials or chemical applications that would adversely affect the materials, it is quarried and stockpiled at our licensed Bound Brook quarry in Bridgewater, NJ.

The pockets of Shale (Red Rock Bound) found in the Brook Quarry, are also a virgin source, natural to the region, and free from contaminants.

The quarry is located in the First Watchung Mountain Range, 409 Chimney Rock Rd, Bridgewater Township, Block 711, Lot 6. The address is 409 Chimney Rock Rd, Bridgewater, NJ 08807. Mine Certificate: 004916

Bound Brook Quarry has operated as a rock quarry since 1944, with no contaminated sites/AOC on neighboring properties or within the quarry itself. The Bound Brook Quarry follows all NJDEP and USDEP protocols to address any minor discharges.

If you have any questions or require further information, please don't hesitate to contact me at 732-542-2328 x329 or [rvannote@stavola.com](mailto:rvannote@stavola.com)

Sincerely,

Robert S VanNote  
Stavola Construction Materials Incorporated



State of New Jersey  
Department of Labor and Workforce Development

Certificate No. 004916  
Expiration Date 3/31/2022

## MINE REGISTRATION CERTIFICATE

ISSUED TO: STAVOLA CONSTRUCTION MATERIALS INC  
409 CHIMNEY ROCK RD BLK NO(S): 711  
BRIDGEWATER, NJ LOT NO(S): 6.01  
COUNTY: SOMERSET

Issued pursuant to the provisions of N.J.S.A. 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

Robert Asaro-Angelo  
\_\_\_\_\_  
Commissioner

**THIS CERTIFICATE MUST BE POSTED AT ALL TIMES**

# S&S ENVIRONMENTAL SCIENCES, INC.

*Environmental Engineering, Testing and Consultation*

98 Sand Park Road, Cedar Grove, NJ 07009  
Tel (973) 857-7188 Fax (973) 239-8380

Kamil Sor, Ph.D.  
Orhun Sor, P.E.  
Atilla Sencar, P.E.

This report is the confidential property of the Client, and information contained may not be published or reproduced without our written permission.

<b>Client:</b>	Stavola Construction Materials, Inc.				
<b>Project:</b>	Bound Brook Quarry, New Jersey				
<b>Subject:</b>	Sampling and Laboratory Analysis of Aggregate-DGA				
<b>Job No.:</b>	21-E-04	<b>Report Number:</b>	21-E-41	<b>Date:</b>	06-30-2021

We present herewith the laboratory test results of one (1) aggregate sample, Dense Graded Aggregate - DGA, collected by a representative of our firm on June 18, 2021.

As requested, the sample was analyzed for the U.S. EPA Target Compound List (TCL)+30/Target Analyte List (TAL) parameters, Extractable Petroleum Hydrocarbons (EPH), pH, and Hexavalent Chromium, including NJDEP-SRS parameters. The analyses were performed by Integrated Analytical Laboratories (IAL) (NJDEP Lab ID No. 14751) and Eurofins Test America Laboratory (TA) (NJDEP Lab ID No. 12028). The copies of sample chain-of-custody forms and laboratory summary reports with regulatory comparison tables are attached.

Based on the laboratory test results, the DGA sample **meets the current (May 17, 2021) NJDEP Soil Remediation Standards.**

If there are any questions or if we can be of further assistance in this matter, please contact us.

Very truly yours,

S&S ENVIRONMENTAL SCIENCES, INC.



Kamil Sor, Ph.D.  
President

KS/ag

Attachments:

(1) IAL/TA Sample Chain-of-Custody Forms, Laboratory Summary  
Reports with Regulatory Comparison Tables

cc: (1) Client (Attn: Mr. Robert VanNote)  
e-mail: [RVannote@stavola.com](mailto:RVannote@stavola.com)



SAMPLE RECEIPT VERIFICATION

CASE NO: E 21

03813

CLIENT:

S+S

COOLER TEMPERATURE: 2° - 6°C:

( See Chain of Custody)

Comments

COC: COMPLETE / INCOMPLETE

KEY

- = YES/NA
- = NO

VOA received:  Encore  IGW - Methanol  
 (check one)  Terra Core  No Preservative

- Bottles Intact
- no-Missing Bottles
- no-Extra Bottles
- Sufficient Sample Volume
- no-headspace/bubbles in VO's
- Labels intact/correct
- pH Check<sup>1</sup> (refer to Receipt pH Log)
- Correct bottles/preservative
- Sufficient Holding/Prep Time<sup>1</sup>
- Multiphasic Sample
- Sample to be Subcontracted
- Chain of Custody is Clear

<sup>1</sup> All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY: INITIAL AP

DATE 6/18/21

CORRECTIVE ACTION REQUIRED: YES  (SEE BELOW)

NO

If COC is NOT clear, STOP until you get client to authorize/clarify work.

CLIENT NOTIFIED: YES  Date/ Time: \_\_\_\_\_ NO

PROJECT CONTACT: \_\_\_\_\_

SUBCONTRACTED LAB: \_\_\_\_\_

DATE SHIPPED: \_\_\_\_\_

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY: INITIAL [Signature]

DATE 6/18/21



**SUMMARY REPORT**  
**Client: S & S Environmental**  
**Project: B BROOK-DGA**  
**Lab Case No.: E21-03813**

PARAMETER(Units)	Conc	Q	MDL
<b>Lab ID: 03813-001</b>			
<b>Client ID: 21-037-D</b>			
<b>Matrix: Solid</b>			
<b>Sampled Date: 6/18/21</b>			
<b>Volatiles (Units)</b>			
<i>(mg/Kg)</i>			
tert-Butyl alcohol (TBA)	0.00133	J	0.00114
<b>TOTAL VO's:</b>	0.00133	J	
<b>TOTAL TIC's:</b>	ND		
<b>TOTAL VO's &amp; TIC's:</b>	0.00133	J	
<b>Semivolatiles - BN (Units)</b>			
<i>(mg/Kg)</i>			
<b>TOTAL BNA'S:</b>	ND		
<b>TOTAL TIC's:</b>	ND		
<b>TOTAL BNA'S &amp; TIC's:</b>	ND		
<b>PCB's (Units)</b>			
<i>(mg/Kg)</i>			
Aroclor-1016	ND		0.000984
Aroclor-1221	ND		0.000984
Aroclor-1232	ND		0.000984
Aroclor-1242	ND		0.000984
Aroclor-1248	ND		0.000984
Aroclor-1254	ND		0.000984
Aroclor-1260	ND		0.000984
Aroclor-1262	ND		0.000984
Aroclor-1268	ND		0.000984
PCBs	ND		0.000984
<b>Pesticides (Units)</b>			
<i>(mg/Kg)</i>			
alpha-BHC	ND		0.000164
beta-BHC	ND		0.000164
gamma-BHC (Lindane)	ND		0.000164
delta-BHC	ND		0.000164
Heptachlor	ND		0.000164
Aldrin	ND		0.000164
Heptachlor epoxide	ND		0.000164
Endosulfan I	ND		0.000164
4,4'-DDE	ND		0.000164
Dieldrin	ND		0.000164
Endrin	ND		0.000164
Endosulfan II	ND		0.000164
4,4'-DDD	ND		0.000164
Endrin aldehyde	ND		0.000164
Endosulfan sulfate	ND		0.000164
4,4'-DDT	ND		0.000164
Endrin ketone	ND		0.000164
Methoxychlor	ND		0.000164
alpha-Chlordane	ND		0.000164
gamma-Chlordane	ND		0.000164
Toxaphene	ND		0.00328
Endosulfan (I and II)	ND		0.000164
Chlordane (alpha and gamma)	ND		0.000164

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

**SUMMARY REPORT**  
**Client: S & S Environmental**  
**Project: B BROOK-DGA**  
**Lab Case No.: E21-03813**

PARAMETER(Units)	Conc	Q	MDL
<b>Lab ID: 03813-001</b> <b>Client ID: 21-037-D</b> <b>Matrix: Solid</b> <b>Sampled Date: 6/18/21</b>			
<b>NJ-EPH-C40 (Units)</b>			
<i>(mg/Kg)</i>			
C9-C40	ND		19.3
<b>Metals (Units)</b>			
<i>(mg/Kg)</i>			
Aluminum	28200	D	25.5
Antimony	ND		0.204
Arsenic	0.647		0.049
Barium	23.1		0.255
Beryllium	0.214	J	0.093
Cadmium	0.123	J	0.040
Calcium	23700		18.6
Chromium	32.9		0.450
Cobalt	18.0		0.153
Copper	104		0.357
Iron	28300		15.3
Lead	2.15		0.255
Magnesium	14400		15.3
Manganese	334		0.420
Mercury	ND		0.010
Nickel	33.7		0.357
Potassium	334		20.4
Selenium	ND		1.53
Silver	ND		0.163
Sodium	3270		20.4
Thallium	ND		0.255
Vanadium	68.1		0.095
Zinc	28.2		1.02
<b>General Analytical (Units)</b>			
Hexavalent Chromium(mg/Kg)	ND		0.378
Cyanide, Total(mg/Kg)	ND		0.472
pH by SW-846 9045D(SU)	9.39		NA

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

D = The compound was reported from the Diluted analysis

+ = Results from subcontracted laboratory





TestAmerica Laboratories, Inc.  
Eurofins TestAmerica, Edison

Lab Job ID: 460-237096-1

Job Description: E21-03813

For:

Integrated Analytical Laboratories LLC

PO BOX 8026

Parsippany, New Jersey 07054

Client ID	NJ_SRS7_26D_Tbl1A	NJ_SRS7_26D_Tbl1B	NIDEP	E21-03813-001
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-237096-1
Sampling Date				06/18/2021 07:40:00
Matrix				Soil
Dilution Factor				1
Unit	mg/kg	mg/kg	mg/kg	mg/kg
SOIL BY 8270E				Result Q MDL
1,4-Dioxane	NA	NA	NA	0.030 U 0.030
Total Conc	NA	NA	NA	0.0

U : Indicates the analyte was analyzed for but not detected.

Sample #: Field ID: Lab ID: Date Sampled: Depth(ft):	NJDEP SOIL REMEDIATION STANDARDS										21-037-D			
	Ingestion-Dermal Residential (mg/Kg)		Inhalation Residential (mg/Kg)		Ingestion-Dermal Nonresidential (mg/Kg)		Inhalation Nonresidential (mg/Kg)		Migration to Ground Water (mg/Kg)		Conc	Q	RL	MDL
Volatiles (mg/Kg)	16000	NA1	NA1	260000	NA1	NA1	38	ND	0.00091	0.000472				
Dichlorodifluoromethane	NA	270	1200	NA	1200	NA6 (RL=1700)		ND	0.00091	0.000288				
Chloromethane	0.97	1.4	6.4	5	6.4	0.0067		ND	0.00091	0.000295				
Vinyl chloride	110	18	82	1800	82	0.043		ND	0.00182	0.000794				
Bromomethane	NA	NA2,3	NA2,3	NA	NA2,3	NA6 (RL=1700)		ND	0.00182	0.00027				
Chloroethane	23000	NA1	NA1	390000	NA1	29		ND	0.00091	0.000369				
Trichlorofluoromethane	NS	NS	NS	NS	NS	NS		ND	0.018	0.00622				
Acrolein	11	52	240	180	240	0.0069		ND	0.00091	0.000319				
1,1-Dichloroethene	70000	NA1	NA1	NA1	NA1	19		ND	0.0091	0.00167				
Acetone	NA	NA2,3	NA2,3	NA	NA2,3	3.7		ND	0.00091	0.000358				
Carbon disulfide	50	1400	NA2,3	260	NA2,3	0.013		ND	0.00182	0.00157				
Methylene chloride	NS	NS	NS	NS	NS	NS		ND	0.018	0.00417				
Acrylonitrile	1400	NA1	NA1	23000	NA1	0.32		0.00133	0.0091	0.00114				
tert-Butyl alcohol (TBA)	1300	NA1	NA1	22000	NA1	0.56		ND	0.00091	0.000322				
trans-1,2-Dichloroethene	780	140	650	13000	650	0.25		ND	0.00091	0.000198				
Methyl tert-butyl ether (MTBE)	120	NA1	NA1	640	NA1	0.24		ND	0.00091	0.000232				
1,1-Dichloroethane	780	NA1	NA1	13000	NA1	0.35		ND	0.00091	0.000195				
cis-1,2-Dichloroethene	47000	NA2,3	NA2,3	780000	NA2,3	0.98		ND	0.00364	0.000455				
2-Butanone (MEK)	NS	NS	NS	NS	NS	NS		ND	0.00091	0.000231				
Bromochloromethane	780	590	NA2,3	13000	NA2,3	0.33		ND	0.00091	0.000228				
Chloroform	160000	NA2,3	NA2,3	NA1	NA2,3	0.2		ND	0.00091	0.000279				
1,1,1-Trichloroethane	7.6	1.4	6.9	40	6.9	0.0075		ND	0.00091	0.000182				
Carbon tetrachloride	5.8	71	320	30	320	0.0095		ND	0.00091	0.00021				
1,2-Dichloroethane (EDC)	3	2.2	11	16	11	0.0094		ND	0.00091	0.000783				
Benzene	15	3	14	79	14	0.0065		ND	0.00091	0.000136				
Trichloroethene	19	5.7	27	98	27	0.0058		ND	0.00091	0.000091				
1,2-Dichloropropane	11	NA1	NA1	59	NA1	0.005		ND	0.00091	0.000108				
Bromodichloromethane	NS	NS	NS	NS	NS	NS		ND	0.00091	0.000139				
cis-1,3-Dichloropropene	NA	NA2,3	NA2,3	NA	NA2,3	NA6 (RL=3400)		ND	0.00182	0.000476				
4-Methyl-2-pentanone (MIBK)	6300	NA2,3	NA2,3	100000	NA2,3	7.8		ND	0.00091	0.000455				
Toluene	NS	NS	NS	NS	NS	NS		ND	0.00091	0.000101				
trans-1,3-Dichloropropene	12	NA1	NA1	64	NA1	0.017		ND	0.00091	0.000195				
1,1,2-Trichloroethane	330	47	NA2,3	1700	NA2,3	0.0086		ND	0.00091	0.0000937				
Tetrachloroethene	390	1000	NA2,3	6500	NA2,3	0.15		ND	0.00182	0.00139				
2-Hexanone	8.3	NA1	NA1	43	NA1	0.005		ND	0.00091	0.000151				
Dibromochloromethane	0.35	0.085	0.41	1.8	0.41	0.005		ND	0.00091	0.000168				
1,2-Dibromoethane (EDB)	510	NA2,3	NA2,3	8400	NA2,3	0.64		ND	0.00091	0.000157				
Chlorobenzene	7800	10	48	130000	48	15		ND	0.00091	0.0000992				
Ethylbenzene														

Standards are based upon published regulatory information.  
 Users are encouraged to consult appropriate regulatory sources for current values and updates.  
 IAL assumes no responsibility for the accuracy of these values.

Total Xylenes	12000	NA2,3	190000	NA2,3	19	ND	0.00182	0.000354
Styrene	16000	NA2,3	260000	NA2,3	2.1	ND	0.00182	0.000196
Bromoform	88	NA1	460	NA1	0.018	ND	0.00091	0.000283
Isopropylbenzene	7800	NA2,3	130000	NA2,3	22	ND	0.00091	0.000194
1,1,2,2-Tetrachloroethane	3.5	NA1	18	NA1	0.0069	ND	0.00091	0.000476
1,3-Dichlorobenzene	6700	NA1	110000	NA1	11	ND	0.00091	0.000241
1,4-Dichlorobenzene	780	NA2,3	13000	NA2,3	1.4	ND	0.00091	0.000282
1,2-Dichlorobenzene	6700	NA2,3	110000	NA2,3	11	ND	0.00091	0.000228
1,2-Dibromo-3-chloropropane	0.87	0.026	4.5	0.12	0.005	ND	0.00091	0.00075
1,2,4-Trichlorobenzene	780	94	13000	NA2,3	0.52	ND	0.00182	0.000382
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	ND	0.00182	0.000289
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA2,3	NA	NA2,3	NA1	ND	0.00182	0.000543
Methyl acetate	78000	NA1	NA1	NA1	22	ND	0.00455	0.000735
Cyclohexane	NA	NA2,3	NA	NA2,3	NA6 (RL=65)	ND	0.00091	0.000164
Methylcyclohexane	NS	NS	NS	NS	NS	ND	0.00091	0.000157
1,3-Dichloropropene (cis- and trans-)	7	4.8	36	23	0.0063	ND	0.00091	0.000139
TOTAL VO's:	NS	NS	NS	NS	NS	0.00133	J	NA
TOTAL TIC's:	NS	NS	NS	NS	NS	ND	J	NA
TOTAL VO's & TIC's:	NS	NS	NS	NS	NS	0.00133	J	NA



N-Nitrosodiphenylamine	110	NA1	520	NA1	1.1	ND	0.033	0.032
1,2-Diphenylhydrazine	NS	NS	NS	NS	NS	ND	0.033	0.033
4-Bromophenyl phenyl ether	NS	NS	NS	NS	NS	ND	0.033	0.023
Hexachlorobenzene	0.43	NA1	2.3	NA1	0.17	ND	0.033	0.024
Atrazine	220	NA1	3200	NA1	0.33	ND	0.033	0.025
Pentachlorophenol	1	NA1	4.4	NA1	0.33	ND	0.033	0.022
Phenanthrene	NS	NS	NS	NS	NS	ND	0.033	0.032
Anthracene	18000	NA1	250000	NA1	NA1	ND	0.033	0.033
Carbazole	NS	NS	NS	NS	NS	ND	0.033	0.030
Di-n-butyl phthalate	6300	NA1	91000	NA1	NA1	ND	0.033	0.028
Fluoranthene	2400	NA1	33000	NA1	NA1	ND	0.033	0.032
Benzidine	NS	NS	NS	NS	NS	ND	0.033	0.026
Pyrene	1800	NA1	25000	NA1	NA1	ND	0.033	0.030
Butyl benzyl phthalate	290	NA1	1300	NA1	29	ND	0.033	0.031
3,3'-Dichlorobenzidine	1.2	NA1	5.7	NA1	3.9	ND	0.033	0.030
Benzofluoranthene	5.1	78000	23	370000	0.71	ND	0.033	0.020
Chrysene	510	NA2,3	2300	NA2,3	NA1	ND	0.033	0.031
Bis(2-ethylhexyl) phthalate	39	NA1	180	NA1	14	ND	0.033	0.030
Di-n-octyl phthalate	630	NA1	9100	NA1	NA1	ND	0.033	0.031
Benzo[b]fluoranthene	5.1	78000	23	370000	NA1	ND	0.033	0.032
Benzo[k]fluoranthene	51	780000	230	NA2,3	NA1	ND	0.033	0.028
Benzo[a]pyrene	0.51	3500	2.3	16000	NA1	ND	0.033	0.029
Indeno[1,2,3-cd]pyrene	5.1	78000	23	370000	NA1	ND	0.033	0.032
Dibenz[a,h]anthracene	0.51	7800	2.3	37000	NA1	ND	0.033	0.031
Benzo[g,h,i]perylene	NS	NS	NS	NS	NS	ND	0.033	0.033
Dinitrotoluene (2,4- and 2,6-)	0.8	NA1	3.8	NA1	0.27	ND	0.033	0.032
TOTAL BNA'S:	NS	NS	NS	NS	NS	ND	0.033	NA
TOTAL TIC's:	NS	NS	NS	NS	NS	ND	0.033	NA
TOTAL BNA'S & TIC's:	NS	NS	NS	NS	NS	ND	0.033	NA



Pesticides (mg/Kg)	0.086	NA1	0.41	NA1	0.023	Conc	Q	RL	MDL
alpha-BHC	0.086	NA1	0.41	NA1	0.0023	ND		0.000656	0.000164
beta-BHC	0.3	NA1	1.4	NA1	0.0046	ND		0.000656	0.000164
gamma-BHC (Lindane)	0.57	NA1	2.8	NA1	0.0035	ND		0.000656	0.000164
delta-BHC	NS	NS	NS	NS	NS	ND		0.000656	0.000164
Heptachlor	0.15	NA1	0.81	NA1	0.083	ND		0.000656	0.000164
Aldrin	0.041	NA1	0.21	NA1	0.13	ND		0.000656	0.000164
Heptachlor epoxide	0.076	NA1	0.4	NA1	0.081	ND		0.000656	0.000164
Endosulfan I	NS	NS	NS	NS	NS	ND		0.000656	0.000164
4,4'-DDE	2	NA1	11	NA1	0.47	ND		0.000656	0.000164
Dieldrin	0.034	NA1	0.16	NA1	0.024	ND		0.000656	0.000164
Endrin	19	NA1	270	NA1	1.6	ND		0.000656	0.000164
Endosulfan II	NS	NS	NS	NS	NS	ND		0.000656	0.000164
4,4'-DDD	2.3	NA1	11	NA1	0.47	ND		0.000656	0.000164
Endrin aldehyde	NS	NS	NS	NS	NS	ND		0.000656	0.000164
Endosulfan sulfate	NS	NS	NS	NS	NS	ND		0.000656	0.000164
4,4'-DDT	1.9	NA1	9.5	NA1	0.67	ND		0.000656	0.000164
Endrin ketone	NS	NS	NS	NS	NS	ND		0.000656	0.000164
Methoxychlor	320	NA1	4600	NA1	NA1	ND		0.000656	0.000164
alpha-Chlordane	NS	NS	NS	NS	NS	ND		0.000656	0.000164
gamma-Chlordane	NS	NS	NS	NS	NS	ND		0.000656	0.000164
Toxaphene	0.49	NA1	2.3	NA1	6.2	ND		0.000656	0.000164
Endosulfan (I and II)	470	NA1	7800	NA1	NA1	ND		0.0082	0.00328
Chlordane (alpha and gamma)	0.27	NA2,3	1.4	NA2,3	1.4	ND		0.000656	0.000164



NJ-EPH-C40 (mg/Kg) C9-C40	Sample- specific4	NA1	Sample- specific4	NA1	NA6 (RL=80)	Conc	Q	RL	MDL
						ND		48.3	19.3

Standards are based upon published regulatory information.  
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 IAL assumes no responsibility for the accuracy of these values.

Metals (mg/Kg)	78000	NA2	NA1	NA2	NA1	NA2	NA1	NA2	NA1	Conc	Q	RL	MDL
Aluminum	31	NA1	520	NA2	NA1	NA2	NA1	NA2	NA1	28200	D	51.0	25.5
Antimony	19	1100	19	NA1	520	NA1	520	NA1	5.4	ND		0.510	0.204
Arsenic	16000	870000	260000	870000	260000	5200	260000	5200	19	0.647		0.510	0.049
Barium	160	2000	2600	2000	2600	NA2	9300	NA2	2100	23.1		0.510	0.255
Beryllium	71	2600	1100	2600	1100	9300	12000	9300	0.7	0.214	J	0.510	0.093
Cadmium	NS	NS	NS	NS	NS	12000	NS	NS	1.9	0.123	J	0.510	0.040
Calcium	NS	NS	NS	NS	NS	NS	NS	NS	NS	23700		51.0	18.6
Chromium	23	520	390	520	390	NS	NS	NS	NS	32.9		0.510	0.450
Cobalt	3100	NA1	52000	NA1	52000	2500	2500	2500	90	18.0		0.510	0.153
Copper	NS	NS	NS	NS	NS	NA1	NA1	NA1	910	104		0.510	0.357
Iron	400	NA1	800	NA1	800	NS	NS	NS	NS	28300		51.0	15.3
Lead	NS	NS	NS	NS	NS	NA1	NA1	NA1	90	2.15		0.510	0.255
Magnesium	NS	NS	NS	NS	NS	NS	NS	NS	NS	14400		51.0	15.3
Manganese	1900	87000	31000	87000	31000	400000	400000	400000	NA2	334		0.510	0.420
Mercury	23	520000	390	520000	390	NA2,3	NA2,3	NA2,3	0.1	ND		0.025	0.010
Nickel	1600	20000	26000	20000	26000	93000	93000	93000	48	33.7		0.510	0.357
Potassium	NS	NS	NS	NS	NS	NS	NS	NS	NS	334		51.0	20.4
Selenium	390	NA1	6500	NA1	6500	NA1	NA1	NA1	11	ND		3.57	1.53
Silver	390	NA1	6500	NA1	6500	NA1	NA1	NA1	0.5	ND		0.510	0.163
Sodium	NS	NS	NS	NS	NS	NS	NS	NS	NS	3270		51.0	20.4
Thallium	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND		0.510	0.255
Vanadium	390	170000	6500	170000	6500	800000	800000	800000	NA6 (RL=2.5)	68.1		0.510	0.095
Zinc	23000	NA1	390000	NA1	390000	NA1	NA1	NA1	930	28.2		5.10	1.02

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# S&S ENVIRONMENTAL SCIENCES, INC.

*Environmental Engineering, Testing and Consultation*

98 Sand Park Road, Cedar Grove, NJ 07009  
Tel (973) 857-7188 Fax (973) 239-8380

Kamil Sor, Ph.D.  
Orhun Sor, P.E.  
Atilla Sencar, P.E.

This report is the confidential property of the Client, and information contained may not be published or reproduced without our written permission.

<b>Client:</b>	Stavola Construction Materials, Inc.				
<b>Project:</b>	Bound Brook Quarry, New Jersey				
<b>Subject:</b>	Sampling and Laboratory Analysis of Aggregate-Screenings				
<b>Job No.:</b>	21-E-04	<b>Report Number:</b>	21-E-42	<b>Date:</b>	06-30-2021

We present herewith the laboratory test results of one (1) aggregate sample, Screenings - SCR, collected by a representative of our firm on June 18, 2021.

As requested, the sample was analyzed for the U.S. EPA Target Compound List (TCL)+30/Target Analyte List (TAL) parameters, Extractable Petroleum Hydrocarbons (EPH), pH, and Hexavalent Chromium, including NJDEP-SRS parameters. The analyses were performed by Integrated Analytical Laboratories (IAL) (NJDEP Lab ID No. 14751) and Eurofins Test America Laboratory (TA) (NJDEP Lab ID No. 12028). The copies of sample chain-of-custody forms and laboratory summary reports with regulatory comparison tables are attached.

Based on the laboratory test results, the Screenings sample **meets the current (May 17, 2021) NJDEP Soil Remediation Standards.**

If there are any questions or if we can be of further assistance in this matter, please contact us.

Very truly yours,

S&S ENVIRONMENTAL SCIENCES, INC.



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Kamil Sor, Ph.D.  
President

KS/ag

Attachments:

(1) IAL/TA Sample Chain-of-Custody Forms, Laboratory Summary Reports with Regulatory Comparison Tables

cc: (1) Client (Attn: Mr. Robert VanNote)

e-mail: [RVannote@stavola.com](mailto:RVannote@stavola.com)



# SAMPLE RECEIPT VERIFICATION

CASE NO: E 21

**03816**

CLIENT:

**G+S**

COOLER TEMPERATURE: 2° - 6°C:

( See Chain of Custody)

Comments

COC: COMPLETE / INCOMPLETE

KEY

- = YES/NA
- = NO

VOA received:  <sup>259</sup>Encore  IGW - Methanol  
(check one)  Terra Core  No Preservative

Bottles Intact  
 no-Missing Bottles  
 no-Extra Bottles

Sufficient Sample Volume  
 no-headspace/bubbles in VO's  
 Labels intact/correct  
 pH Check<sup>1</sup> (refer to Receipt pH Log)  
 Correct bottles/preservative  
 Sufficient Holding/Prep Time<sup>1</sup>  
 Multiphasic Sample  
 Sample to be Subcontracted  
 Chain of Custody is Clear

<sup>1</sup> All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY: INITIAL **RP**

DATE **6/18/21**

CORRECTIVE ACTION REQUIRED: YES  (SEE BELOW)

NO

If COC is **NOT** clear, **STOP** until you get client to authorize/clarify work.

CLIENT NOTIFIED: YES  Date/ Time: \_\_\_\_\_ NO

PROJECT CONTACT: \_\_\_\_\_

SUBCONTRACTED LAB: \_\_\_\_\_

DATE SHIPPED: \_\_\_\_\_

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY: INITIAL **KJ**

DATE **6/18/21**

**SUMMARY REPORT**  
**Client: S & S Environmental**  
**Project: B BROOK - SCR**  
**Lab Case No.: E21-03816**

<b>Lab ID:</b>	<b>03816-001</b>		
<b>Client ID:</b>	<b>21-038-S</b>		
<b>Matrix:</b>	<b>Solid</b>		
<b>Sampled Date</b>	<b>6/18/21</b>		
<b>PARAMETER(Units)</b>	<b>Conc</b>	<b>Q</b>	<b>MDL</b>
<b>Volatiles (Units)</b>	<i>(mg/Kg)</i>		
<b>TOTAL VO's:</b>	ND		
<b>TOTAL TIC's:</b>	ND		
<b>TOTAL VO's &amp; TIC's:</b>	ND		
<b>Semivolatiles - BNA (Units)</b>	<i>(mg/Kg)</i>		
<b>TOTAL BNA'S:</b>	ND		
<b>TOTAL TIC's:</b>	ND		
<b>TOTAL BNA'S &amp; TIC's:</b>	ND		
<b>PCB's (Units)</b>	<i>(mg/Kg)</i>		
Aroclor-1016	ND	0.000972	
Aroclor-1221	ND	0.000972	
Aroclor-1232	ND	0.000972	
Aroclor-1242	ND	0.000972	
Aroclor-1248	ND	0.000972	
Aroclor-1254	ND	0.000972	
Aroclor-1260	ND	0.000972	
Aroclor-1262	ND	0.000972	
Aroclor-1268	ND	0.000972	
PCBs	ND	0.000972	

ND = Analyzed for but Not Detected at the MDL

**SUMMARY REPORT**  
**Client: S & S Environmental**  
**Project: B BROOK - SCR**  
**Lab Case No.: E21-03816**

<b>PARAMETER(Units)</b>	<b>Lab ID:</b>	<b>03816-001</b>	
	<b>Client ID:</b>	<b>21-038-S</b>	
	<b>Matrix:</b>	<b>Solid</b>	
	<b>Sampled Date</b>	<b>6/18/21</b>	
	<b>Conc</b>	<b>Q</b>	<b>MDL</b>
<b>Pesticides (Units)</b>		<b>(mg/Kg)</b>	
alpha-BHC	ND		0.000162
beta-BHC	ND		0.000162
gamma-BHC (Lindane)	ND		0.000162
delta-BHC	ND		0.000162
Heptachlor	ND		0.000162
Aldrin	ND		0.000162
Heptachlor epoxide	ND		0.000162
Endosulfan I	ND		0.000162
4,4'-DDE	ND		0.000162
Dieldrin	ND		0.000162
Endrin	ND		0.000162
Endosulfan II	ND		0.000162
4,4'-DDD	ND		0.000162
Endrin aldehyde	ND		0.000162
Endosulfan sulfate	ND		0.000162
4,4'-DDT	ND		0.000162
Endrin ketone	ND		0.000162
Methoxychlor	ND		0.000162
alpha-Chlordane	ND		0.000162
gamma-Chlordane	ND		0.000162
Toxaphene	ND		0.00324
Endosulfan (I and II)	ND		0.000162
Chlordane (alpha and gamma)	ND		0.000162
<b>NJ-EPH-C40 (Units)</b>		<b>(mg/Kg)</b>	
C9-C40	26.6	J	19.5

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.



**SUMMARY REPORT**  
**Client: S & S Environmental**  
**Project: B BROOK - SCR**  
**Lab Case No.: E21-03816**

<b>PARAMETER(Units)</b>	<b>Conc</b>	<b>Q</b>	<b>MDL</b>
<b>Lab ID: 03816-001</b> <b>Client ID: 21-038-S</b> <b>Matrix: Solid</b> <b>Sampled Date: 6/18/21</b>			
<b>Metals (Units)</b>	<b>(mg/Kg)</b>		
Aluminum	23800	D	25.0
Antimony	ND		0.200
Arsenic	0.631		0.048
Barium	27.2		0.250
Beryllium	0.183	J	0.091
Cadmium	ND		0.039
Calcium	18600		18.2
Chromium	22.4		0.441
Cobalt	15.1		0.150
Copper	88.7		0.350
Iron	24100		15.0
Lead	2.01		0.250
Magnesium	11900		15.0
Manganese	292		0.412
Mercury	ND		0.010
Nickel	33.1		0.350
Potassium	335		20.0
Selenium	ND		1.50
Silver	ND		0.160
Sodium	3460		20.0
Thallium	ND		0.250
Vanadium	53.2		0.093
Zinc	24.3		1.00
<b>General Analytical (Units)</b>			
Hexavalent Chromium(mg/Kg)	ND		0.378
Cyanide, Total(mg/Kg)	ND		0.490
pH by SW-846 9045D(SU)	9.55		NA

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

D = The compound was reported from the Diluted analysis



**TestAmerica Laboratories, Inc.**  
 Eurofins TestAmerica, Edison  
 Lab Job ID: 460-237099-1  
 Job Description: E21-03816

For:  
 Integrated Analytical Laboratories LLC  
 PO BOX 8026  
 Parsippany, New Jersey 07054

Client ID	NJ_SRS7_26D_Tb1LA	NJ_SRS7_26D_Tb1B	IGW Screening	NJDEP	E21-03816-001
Lab Sample ID	Residential	Non-Residential			460-237099-1
Sampling Date					06/18/2021 07:20:00
Matrix					Soil
Dilution Factor					1
Unit	mg/kg	mg/kg	mg/kg	mg/kg	MDL
SOIL BY 8270E					
1,4-Dioxane	NA	NA	NA	0.030	U
Total Conc	NA	NA	NA	0.0	

U : Indicates the analyte was analyzed for but not detected.

Sample #: Field ID: Lab ID: Date Sampled: Depth(ft):	NJDEP SOIL REMEDIATION STANDARDS							21-038-S										
	Ingestion-Dermal Residential (mg/Kg)	Inhalation Residential (mg/Kg)		Ingestion-Dermal Nonresidential (mg/Kg)	Inhalation Nonresidential (mg/Kg)		Migration to Ground Water (mg/Kg)	Conc	Q	RL	MDL							
		NA1	270		1.4	18						NA2,3	NA1	240	NA1	260000	NA1	1200
<b>Volatiles (mg/Kg)</b>	16000	NA1	NA1	260000	NA1	NA1	NA1	38	0.00105	0.000545								
Dichlorodifluoromethane	NA	270	NA	NA	1200	NA6 (RL=1700)	NA6 (RL=1700)	NA6 (RL=1700)	0.00105	0.000333								
Chloromethane	0.97	1.4	5	5	6.4	0.0067	0.0067	0.0067	0.00105	0.00034								
Vinyl chloride	110	18	1800	1800	82	0.043	0.043	0.043	0.0021	0.000916								
Bromomethane	NA	NA2,3	NA	NA	NA2,3	NA6 (RL=1700)	NA6 (RL=1700)	NA6 (RL=1700)	0.0021	0.000312								
Chloroethane	23000	NA1	390000	390000	NA1	29	29	29	0.00105	0.000426								
Trichlorofluoromethane	11	52	180	180	240	0.0069	0.0069	0.0069	0.00105	0.000368								
1,1-Dichloroethene	70000	NA1	NA1	NA1	NA1	19	19	19	0.011	0.00193								
Acetone	NA	NA2,3	NA	NA	NA2,3	3.7	3.7	3.7	0.00105	0.000413								
Carbon disulfide	50	1400	260	260	NA2,3	0.013	0.013	0.013	0.0021	0.00181								
Methylene chloride	1300	NA1	22000	22000	NA1	0.56	0.56	0.56	0.00105	0.000372								
trans-1,2-Dichloroethene	780	140	13000	13000	650	0.25	0.25	0.25	0.00105	0.000229								
Methyl tert-butyl ether (MTBE)	120	NA1	640	640	NA1	0.24	0.24	0.24	0.00105	0.000268								
1,1-Dichloroethane	780	NA1	13000	13000	NA1	0.35	0.35	0.35	0.00105	0.000225								
cis-1,2-Dichloroethene	47000	NA2,3	780000	780000	NA2,3	0.98	0.98	0.98	0.0042	0.000525								
2-Butanone (MEK)	NS	NS	NS	NS	NS	NS	NS	NS	0.00105	0.000267								
Bromochloromethane	780	590	13000	13000	NA2,3	0.33	0.33	0.33	0.00105	0.000263								
Chloroform	160000	NA2,3	NA1	NA1	NA2,3	0.2	0.2	0.2	0.00105	0.000322								
1,1,1-Trichloroethane	7.6	1.4	40	40	6.9	0.0075	0.0075	0.0075	0.00105	0.00021								
Carbon tetrachloride	5.8	71	30	30	320	0.0095	0.0095	0.0095	0.00105	0.000243								
1,2-Dichloroethane (EDC)	3	2.2	16	16	11	0.0094	0.0094	0.0094	0.00105	0.000903								
Benzene	15	3	79	79	14	0.0065	0.0065	0.0065	0.00105	0.000156								
Trichloroethene	19	5.7	98	98	27	0.0058	0.0058	0.0058	0.00105	0.000105								
1,2-Dichloropropane	7	45	36	36	210	0.067	0.067	0.067	0.210	0.061								
1,4-Dioxane	11	NA1	59	59	NA1	0.005	0.005	0.005	0.00105	0.000125								
Bromodichloromethane	NS	NS	NS	NS	NS	NS	NS	NS	0.00105	0.000161								
cis-1,3-Dichloropropene	NA	NA2,3	NA	NA	NA2,3	NA6 (RL=3400)	NA6 (RL=3400)	NA6 (RL=3400)	0.0021	0.000549								
4-Methyl-2-pentanone (MIBK)	6300	NA2,3	100000	100000	NA2,3	7.8	7.8	7.8	0.00105	0.000525								
Toluene	NS	NS	NS	NS	NS	NS	NS	NS	0.00105	0.000117								
trans-1,3-Dichloropropene	12	NA1	64	64	NA1	0.017	0.017	0.017	0.00105	0.000225								
1,1,2-Trichloroethane	330	47	1700	1700	NA2,3	0.0086	0.0086	0.0086	0.00105	0.000108								
Tetrachloroethene	390	1000	6500	6500	NA2,3	0.15	0.15	0.15	0.0021	0.00161								
2-Hexanone	8.3	NA1	43	43	NA1	0.005	0.005	0.005	0.00105	0.000174								
Dibromochloromethane	0.35	0.085	1.8	1.8	0.41	0.005	0.005	0.005	0.00105	0.000194								
1,2-Dibromoethane (EDB)	510	NA2,3	8400	8400	NA2,3	0.64	0.64	0.64	0.00105	0.000182								
Chlorobenzene	7800	10	130000	130000	48	15	15	15	0.00105	0.000114								
Ethylbenzene	12000	NA2,3	190000	190000	NA2,3	19	19	19	0.0021	0.000408								
Total Xylenes	16000	NA2,3	260000	260000	NA2,3	2.1	2.1	2.1	0.0021	0.000226								
Styrene																		

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Bromoform	88	NA1	460	NA1	NA1	0.018	ND	0.00105	0.000327
Isopropylbenzene	7800	NA2,3	130000	NA2,3	NA2,3	22	ND	0.00105	0.000224
1,1,2,2-Tetrachloroethane	3.5	NA1	18	NA1	NA1	0.0069	ND	0.00105	0.000549
1,3-Dichlorobenzene	6700	NA1	110000	NA1	NA1	11	ND	0.00105	0.000278
1,4-Dichlorobenzene	780	NA2,3	13000	NA2,3	NA2,3	1.4	ND	0.00105	0.000326
1,2-Dichlorobenzene	6700	NA2,3	110000	NA2,3	NA2,3	11	ND	0.00105	0.000264
1,2-Dibromo-3-chloropropane	0.87	0.026	4.5	0.12	0.12	0.005	ND	0.00105	0.000865
1,2,4-Trichlorobenzene	780	94	13000	NA2,3	NA2,3	0.52	ND	0.0021	0.000441
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	ND	0.0021	0.000334
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA2,3	NA	NA2,3	NA2,3	NA1	ND	0.0021	0.000627
Methyl acetate	78000	NA1	NA1	NA1	NA1	22	ND	0.00525	0.000848
Cyclohexane	NA	NA2,3	NA	NA2,3	NA2,3	NA6 (RL=65)	ND	0.00105	0.000189
Methylcyclohexane	NS	NS	NS	NS	NS	NS	ND	0.00105	0.000181
1,3-Dichloropropene (cis- and trans-)	7	4.8	36	23	23	0.0063	ND	0.00105	0.000161
TOTAL VO's:	NS	NS	NS	NS	NS	NS	ND		NA
TOTAL TIC's:	NS	NS	NS	NS	NS	NS	ND		NA
TOTAL VO's & TIC's:	NS	NS	NS	NS	NS	NS	ND		NA









Pesticides (mg/Kg)	0.086	NA1	0.41	NA1	0.0023	Conc	Q	RL	MDL
alpha-BHC	0.086	NA1	0.41	NA1	0.0023	ND		0.000648	0.000162
beta-BHC	0.3	NA1	1.4	NA1	0.0046	ND		0.000648	0.000162
gamma-BHC (Lindane)	0.57	NA1	2.8	NA1	0.0035	ND		0.000648	0.000162
delta-BHC	NS	NS	NS	NS	NS	ND		0.000648	0.000162
Heptachlor	0.15	NA1	0.81	NA1	0.083	ND		0.000648	0.000162
Aldrin	0.041	NA1	0.21	NA1	0.13	ND		0.000648	0.000162
Heptachlor epoxide	0.076	NA1	0.4	NA1	0.081	ND		0.000648	0.000162
Endosulfan I	NS	NS	NS	NS	NS	ND		0.000648	0.000162
4,4'-DDE	2	NA1	11	NA1	0.47	ND		0.000648	0.000162
Dieldrin	0.034	NA1	0.16	NA1	0.024	ND		0.000648	0.000162
Endrin	19	NA1	270	NA1	1.6	ND		0.000648	0.000162
Endosulfan II	NS	NS	NS	NS	NS	ND		0.000648	0.000162
4,4'-DDD	2.3	NA1	11	NA1	0.47	ND		0.000648	0.000162
Endrin aldehyde	NS	NS	NS	NS	NS	ND		0.000648	0.000162
Endosulfan sulfate	NS	NS	NS	NS	NS	ND		0.000648	0.000162
4,4'-DDT	1.9	NA1	9.5	NA1	0.67	ND		0.000648	0.000162
Endrin ketone	NS	NS	NS	NS	NS	ND		0.000648	0.000162
Methoxychlor	320	NA1	4600	NA1	NA1	ND		0.000648	0.000162
alpha-Chlordane	NS	NS	NS	NS	NS	ND		0.000648	0.000162
gamma-Chlordane	NS	NS	NS	NS	NS	ND		0.000648	0.000162
Toxaphene	0.49	NA1	2.3	NA1	6.2	ND		0.0081	0.00324
Endosulfan (I and II)	470	NA1	7800	NA1	NA1	ND		0.000648	0.000162
Chlordane (alpha and gamma)	0.27	NA2,3	1.4	NA2,3	1.4	ND		0.000648	0.000162

NJ-EPH-C40 (mg/Kg) C9-C40	Sample- specific4	NA1	Sample- specific4	NA1	NA6 (RL=80)	Conc	Q	RL	MDL
						26.6	J	48.7	19.5

Metals (mg/Kg)	78000	NA2	NA1	NA2	NA1	NA2	NA1	NA2	Conc	Q	RL	MDL
Aluminum	31	NA1	520	NA1	520	NA1	520	NA2	23800	D	50.0	25.0
Antimony	19	1100	19	NA1	19	NA1	19	5.4	ND		0.500	0.200
Arsenic	16000	870000	260000	NA2	260000	NA2	260000	19	0.631		0.500	0.048
Barium	160	2000	2600	NA2	2600	NA2	2600	2100	27.2		0.500	0.250
Beryllium	71	2600	1100	9300	1100	9300	1100	0.7	0.183	J	0.500	0.091
Cadmium	NS	NS	NS	12000	NS	12000	NS	1.9	ND		0.500	0.039
Calcium	NS	NS	NS	NS	NS	NS	NS	NS	18600		50.0	18.2
Chromium	NS	NS	NS	NS	NS	NS	NS	NS	22.4		0.500	0.441
Cobalt	23	520	390	2500	390	2500	390	90	15.1		0.500	0.150
Copper	3100	NA1	52000	NA1	52000	NA1	52000	910	88.7		0.500	0.350
Iron	NS	NS	NS	NS	NS	NS	NS	NS	24100		50.0	15.0
Lead	400	NA1	800	NA1	800	NA1	800	90	2.01		0.500	0.250
Magnesium	NS	NS	NS	NS	NS	NS	NS	NS	11900		50.0	15.0
Manganese	1900	87000	31000	400000	31000	400000	31000	NA2	292		0.500	0.412
Mercury	23	520000	390	NA2,3	390	NA2,3	390	0.1	ND		0.025	0.010
Nickel	1600	20000	26000	93000	26000	93000	26000	48	33.1		0.500	0.350
Potassium	NS	NS	NS	NS	NS	NS	NS	NS	335		50.0	20.0
Selenium	390	NA1	6500	NA1	6500	NA1	6500	11	ND		3.50	1.50
Silver	390	NA1	6500	NA1	6500	NA1	6500	0.5	ND		0.500	0.160
Sodium	NS	NS	NS	NS	NS	NS	NS	NS	3460		50.0	20.0
Thallium	NS	NS	NS	NS	NS	NS	NS	NS	ND		0.500	0.250
Vanadium	390	170000	6500	800000	6500	800000	6500	NA6 (RL=2.5)	53.2		0.500	0.093
Zinc	23000	NA1	390000	NA1	390000	NA1	390000	930	24.3		5.00	1.00

