

 Orange County

 17782 Georgetown Lane

 Huntington Beach, California 92647

 Tele:
 (714) 375-3830

 Fax:
 (714) 375-3831

10/2/2024

Subject: Geotechnical and Environmental Test Results Characterization of Soils for Disposal/Reuse Santa Monica High School, Site of Demolished South Gym Building 601 Pico Blvd., Santa Monica, CA 90405 AESCO Project No. 20240833-H6118

Dear Mr. Lane:

On September 23, 2024, Contractor delivered to AESCO's facility with a soil sample collected from Santa Monica High School. We understood that the soil was generated from the site of the demolished South Gym building. Contractor requested the soil sample to be analyzed for disposal and/or potential reuse. The scope of work requested from AESCO included both geotechnical and environmental testing.

For geotechnical testing, the sample was tested for the following:

- □ Sieve Analysis (ASTM D6913)
- □ Atterberg Limits (ASTM D4318)
- □ Sand Equivalent (ASTM D2419)

The geotechnical test results are presented in Appendix A.

For environmental testing the sample was submitted to Advanced Technology Laboratories in Signal Hill, California and analyzed for the following constituents:

- □ Method 8015B (modified) Gasoline Range Organics (GRO)
- □ Method 8015B Diesel Range Organics (DRO)/Oil Range Organics (ORO)
- □ Method 6010B Metals (ICP)
- □ Method 7471A Mercury (CVAA)

The environmental test results are presented in Appendix B. None of the detected levels of gasoline, diesel, metals and mercury exceeded screening levels and the stockpile is not considered hazardous and is considered acceptable for reuse by environmental standards.

It must be recognized that conclusions reached in this report are based on a sample collected by others and was not sampled by AESCO. The sample location and depth was selected by the client.

Please do not hesitate to contact us if you have any questions or need of any additional assistance. We look forward to continually assisting you during the construction of the proposed project.

Sincerely,

AESCO, Inc.

Omar Chamaa, PE Project Engineer

Rhys Kuzmic, CAC, CLP Environmental Project Manager

Attachments:

Appendix A: Geotechnical Test Results Appendix B: Advance Technology Laboratories Analytical Report 2401508, Dated 10/01/2024

Appendix A

Geotechnical Test Results



AESCO 17782 Georgetown Lane Huntington Beach, CA 92647 T: (714) 375-3830 F: (714) 375-3831

			PROJECT INFORMATION
PROJECT:	601 Pico E	nica High School 3lvd., nica, CA 90405	PROJECT NO.: 20240833 REPORT NO.: H6118 DATE OFSERVICE: 9/25/2024 REPORT DATE: 10/1/2024
SERVICES	: Perform s	oil classification testing as re	equested by the Client.
			SAMPLE INFORMATION
DATE SAN SAMPLE L MATERIA	OCATION:	9/25/2024 Sample was de Reddish brown Silty Sand (SAMPLED BY: Client elivered to AESCO by the Client. (SM)
			TEST RESULTS
TESTED B	Υ:	Tariq Abdullah	DATE TESTED : 10/1/2024
<u>SIEVE AN</u>	ALYSIS (ASTN	<u>M D6913)</u>	ADDITIONAL TESTING
SIEVE NO	. % PASSING		PLASTICITY INDEX (ASTM D4318): NP - NON-PLASTIC
1.5"	100		
1"	100		
3/4"	100		
1/2"	99		SAND EQUIVALENT (ASTM D2419): 23
3/8"	99		
#4 #0	97		
#8 #16	95 94		
#10 #30	94 90		
#50 #50	50		
#100	23		
#200	19		
			Contraction of the second seco
			AESCO Engineer
			FOR INFORMATION ONLY

Our letters and reports are for the exclusive use of the client to whom tl without the approval of the testing laboratory. The use of our name mu only to the sample tested and/or inspected, and are not indicative o

Appendix B

Advanced Technology Laboratories Analytical Report 2401508, Dated 10/01/2024



October 01, 2024

Adam Chamaa AESCO 17782 Georgetown Lane Huntington Beach, CA 92647 Tel: (714) 375-3830 Fax:

ELAP No.: 3101 CSDLAC No.: 10196

Re: ATL Work Order Number : 2401508 Client Reference : Santa Monica High School / 20240833-H6121

Enclosed are the results for sample(s) received on September 24, 2024 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or Project.Management@atlglobal.com.

Sincerely,

Allison Ford, Client Services Associate project.management@atlglobal.com Authorized to Release on 10/01/24 17:00 on Behalf of

Amy Leung

Laboratory Director

The test results in this report relate exclusively to the samples as received by the laboratory, and meet the requirements of the methodology under which they were reported; any exceptions are noted within the report and/ or case narrative.

The cover letter/ signature page and the case narrative are integral parts of this analytical report; the absence of any portion of the report renders the report invalid. This report shall not be reproduced except in full, and shall have the express written approval of the laboratory, and the original client firm to do so

The electronic signature on this report is signed by an authorized signatory of Advanced Technology Laboratories, and is intended to be legally binding as the equivalent of a handwritten signature.

3275 Walnut Avenue, Signal Hill, CA 90755 • Tel: 562-989-4045 • Fax: 562-989-4040 www.atlglobal.com



	Certificate of Analy	sis
AESCO	Project Number:	Santa Monica High School / 20240833-H6121
17782 Georgetown Lane	Report To :	Adam Chamaa
Huntington Beach, CA92647	Reported :	10/01/2024

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
H6121-01	2401508-01	Soil	9/23/24 12:00	9/24/24 12:06



AESCO	Project Number:	Santa Monica High School / 20240833-H6121
17782 Georgetown Lane	Report To:	Adam Chamaa
Huntington Beach, CA92647	Reported :	10/01/2024

Notes and Definitions

- ND Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
- PQL Practical Quantitation Limit
- MDL Method Detection Limit
- NR Not Reported
- RPD Relative Percent Difference
- CA2 CA-ELAP (CDPH)
- OR1 OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.



AESCO	Project Number: Santa Monica High School / 20240833-H6121
17782 Georgetown Lane	Report To: Adam Chamaa
Huntington Beach, CA92647	Reported : 10/01/2024

Mercury by AA (Cold Vapor) EPA 7471A

Analyte: Mercury

Analyst: JB

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilutio	n Batch	Prepared	Date/Time Analyzed	Notes
2401508-01	H6121-01	ND	mg/kg	0.10	1	B4I0821	09/24/2024	09/27/24 18:49	



AESCO 17782 Georgetown Lane Huntington Beach , CA 92647 Project Number: Santa Monica High School / 20240833-H6121

Report To: Adam Chamaa

Reported : 10/01/2024

Client Sample ID: H6121-01 Lab ID: 2401508-01

Title 22 Metals by ICP-AES EPA 6010B

							i inary set of
Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Arsenic	ND	2.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Barium	46	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Beryllium	ND	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Cadmium	ND	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Chromium	16	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Cobalt	4.6	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Copper	5.5	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Lead	5.5	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Molybdenum	ND	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Nickel	7.6	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Selenium	ND	2.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Silver	ND	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Thallium	ND	2.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Vanadium	24	1.0	1	B4I0820	09/24/2024	09/25/24 15:16	
Zinc	28	2.0	1	B4I0820	09/24/2024	09/25/24 15:16	

Diesel and Oil Range Organics by EPA 8015B

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	47	5.0	1	B4I0819	09/24/2024	09/25/24 12:18	
ORO	ND	5.0	1	B4I0819	09/24/2024	09/25/24 12:18	
Surrogate: p-Terphenyl	69.2 %	-6.76 - 189		B4I0819	09/24/2024	09/25/24 12:18	

Gasoline Range Organics by EPA 5030 / EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B4I0816	09/24/2024	09/24/24 15:53	
Surrogate: 4-Bromofluorobenzene	110 %	31 - 137		B4I0816	09/24/2024	09/24/24 15:53	

Analyst: JB

Analyst: KK2

Analyst: KK2



AESCO 17782 Georgetown Lane Huntington Beach , CA 92647

Project Number: Santa Monica High School / 20240833-H6121

Report To: Adam Chamaa

Reported : 10/01/2024

QUALITY CONTROL SECTION

Gasoline Range Organics by EPA 5030 / EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit Notes	
Batch B4I0816 - GCVOA_S										
Blank (B4I0816-BLK1)					Prepared: 9/24/2024 Analyzed: 9/24/2024					
Gasoline Range Organics	ND	1.0	0.02							
Surrogate: 4-Bromofluorobenzene	0.8506			0.800000		106	31 - 137			
LCS (B4I0816-BS1)						Prepared: 9/2	24/2024 Analyzed	: 9/24/2024		
Gasoline Range Organics	4.70300	1.0	0.02	5.00000		94.1	79.8 - 112			
Surrogate: 4-Bromofluorobenzene	0.9028			0.800000		113	31 - 137			
Matrix Spike (B4I0816-MS1)		Sou	ırce: 240150	8-01	Prepared: 9/24/2024 Analyzed: 9/24/2024					
Gasoline Range Organics	4.92900	1.0	0.02	5.00000	0.061	97.4	3.3 - 122			
Surrogate: 4-Bromofluorobenzene	0.9014			0.800000		113	31 - 137			
Matrix Spike Dup (B4I0816-MSD1)	Matrix Spike Dup (B4I0816-MSD1) Source: 2401508-01				Prepared: 9/24/2024 Analyzed: 9/24/2024					
Gasoline Range Organics	4.59226	0.99	0.02	4.96032	0.061	91.4	3.3 - 122	7.07	20	
Surrogate: 4-Bromofluorobenzene	0.9060			0.800000		113	31 - 137			



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Huntington Beach, CA92647

Project Number: Santa Monica High School / 20240833-H6121

Report To: Adam Chamaa

Reported : 10/01/2024

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

	Result	PQL	MDL	Spike	Source		% Rec		RPD
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit Notes
D-4-1 D410920 ED4 2050D C									

Batch B4I0820 - EPA 3050B_S

Blank (B4I0820-BLK1)						Prepared: 9/	24/2024 Analyzed: 9	0/25/2024
Antimony	ND	2.0	0.77					
Arsenic	ND	2.0	0.71					
Barium	ND	1.0	0.06					
Beryllium	ND	1.0	0.03					
Cadmium	ND	1.0	0.06					
Chromium	ND	1.0	0.10					
Cobalt	ND	1.0	0.08					
Copper	ND	1.0	0.22					
Lead	ND	1.0	0.18					
Molybdenum	ND	1.0	0.10					
Nickel	ND	1.0	0.04					
Selenium	ND	2.0	0.82					
Silver	ND	1.0	0.27					
Thallium	ND	2.0	0.35					
Vanadium	ND	1.0	0.20					
Zinc	ND	2.0	0.30					
LCS (B4I0820-BS1)						Prepared: 9/	24/2024 Analyzed: 9	/25/2024
Antimony	26.0342	2.0	0.77	25.0000		104	80 - 120	
Arsenic	25.6753	2.0	0.71	25.0000		103	80 - 120	
Barium	24.3928	1.0	0.06	25.0000		97.6	80 - 120	
Beryllium	25.4745	1.0	0.03	25.0000		102	80 - 120	
Cadmium	24.6158	1.0	0.06	25.0000		98.5	80 - 120	
Chromium	24.7830	1.0	0.10	25.0000		99.1	80 - 120	
Cobalt	25.2559	1.0	0.08	25.0000		101	80 - 120	
Copper	25.1464	1.0	0.22	25.0000		101	80 - 120	
Lead	26.9986	1.0	0.18	25.0000		108	80 - 120	
Molybdenum	27.3883	1.0	0.10	25.0000		110	80 - 120	
Nickel	25.4189	1.0	0.04	25.0000		102	80 - 120	
Selenium	24.7582	2.0	0.82	25.0000		99.0	80 - 120	
Silver	11.5852	1.0	0.27	12.5000		92.7	80 - 120	
Thallium	27.4048	2.0	0.35	25.0000		110	80 - 120	
Vanadium	24.2846	1.0	0.20	25.0000		97.1	80 - 120	
Zinc	24.9732	2.0	0.30	25.0000		99.9	80 - 120	
Matrix Spike (B4I0820-MS1)		So	urce: 24015	08-01		Prepared: 9/	24/2024 Analyzed: 9	/25/2024
Antimony	23.0037	2.0	0.77	25.0000	ND	92.0	75 - 125	
Arsenic	24.7515	2.0	0.71	25.0000	ND	99.0	75 - 125	
Barium	65.7516	1.0	0.06	25.0000	46.1051	78.6	75 - 125	
Beryllium	25.3874	1.0	0.03	25.0000	0.268611	100	75 - 125	
Cadmium	25.2069	1.0	0.06	25.0000	ND	101	75 - 125	
Chromium	41.2418	1.0	0.10	25.0000	16.1542	100	75 - 125	
Cobalt	29.5656	1.0	0.08	25.0000	4.56202	100	75 - 125	
Copper	30.5204	1.0	0.22	25.0000	5.52098	100	75 - 125	



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17782 Georgetown Lane

Huntington Beach , CA92647

Project Number: Santa Monica High School / 20240833-H6121

Report To: Adam Chamaa

Reported : 10/01/2024

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

	Result	PQL	MDL	Spike	Source		% Rec		RPD
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit Notes

Batch B4I0820 - EPA 3050B_S (continued)

Matrix Spike (B4I0820-MS1) - Conti	Sou	ırce: 240150)8-01	Prepared: 9/24/2024 Analyzed: 9/25/2024					
Lead	30.6127	1.0	0.18	25.0000	5.50776	100	75 - 125		
Molybdenum	24.5163	1.0	0.10	25.0000	0.881312	94.5	75 - 125		
Nickel	33.3650	1.0	0.04	25.0000	7.57687	103	75 - 125		
Selenium	19.8691	2.0	0.82	25.0000	ND	79.5	75 - 125		
Silver	12.8834	1.0	0.27	12.5000	ND	103	75 - 125		
Thallium	21.6362	2.0	0.35	25.0000	ND	86.5	75 - 125		
Vanadium	46.3357	1.0	0.20	25.0000	23.9225	89.7	75 - 125		
Zinc	52.7209	2.0	0.30	25.0000	28.3663	97.4	75 - 125		
Matrix Spike Dup (B4I0820-MSD1)		So	urce: 24015	08-01	Prepared: 9/24/2024 Analyzed: 9/25/				
Antimony	23.3382	2.0	0.77	25.0000	ND	93.4	75 - 125	1.44	20
Arsenic	25.1516	2.0	0.71	25.0000	ND	101	75 - 125	1.60	20
Barium	67.3849	1.0	0.06	25.0000	46.1051	85.1	75 - 125	2.45	20
Beryllium	25.6279	1.0	0.03	25.0000	0.268611	101	75 - 125	0.943	20
Cadmium	24.5377	1.0	0.06	25.0000	ND	98.2	75 - 125	2.69	20
Chromium	39.5914	1.0	0.10	25.0000	16.1542	93.7	75 - 125	4.08	20
Cobalt	29.1870	1.0	0.08	25.0000	4.56202	98.5	75 - 125	1.29	20
Copper	31.1519	1.0	0.22	25.0000	5.52098	103	75 - 125	2.05	20
Lead	30.9015	1.0	0.18	25.0000	5.50776	102	75 - 125	0.939	20
Molybdenum	25.5122	1.0	0.10	25.0000	0.881312	98.5	75 - 125	3.98	20
Nickel	34.9819	1.0	0.04	25.0000	7.57687	110	75 - 125	4.73	20
Selenium	20.7029	2.0	0.82	25.0000	ND	82.8	75 - 125	4.11	20
Silver	11.9342	1.0	0.27	12.5000	ND	95.5	75 - 125	7.65	20
Thallium	21.4882	2.0	0.35	25.0000	ND	86.0	75 - 125	0.687	20
Vanadium	47.9578	1.0	0.20	25.0000	23.9225	96.1	75 - 125	3.44	20
Zinc	50.5717	2.0	0.30	25.0000	28.3663	88.8	75 - 125	4.16	20



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17782 Georgetown Lane

Huntington Beach, CA92647

Project Number: Santa Monica High School / 20240833-H6121

Report To: Adam Chamaa

Reported : 10/01/2024

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit Notes		
Batch B4I0821 - EPA 7471_S											
Blank (B4I0821-BLK1)	10821-BLK1) Prepared: 9/24/2024 Analyzed: 9/27/2024										
Mercury	ND	0.10	0.01								
LCS (B4I0821-BS1)						Prepared: 9/24/2024 Analyzed: 9/27/2024					
Mercury	0.383082	0.10	0.01	0.416667		91.9	75.1 - 123				
Matrix Spike (B4I0821-MS1)		Sou	rce: 240150	8-01		Prepared: 9/2	9/27/2024				
Mercury	0.454689	0.10	0.01	0.416667	0.026286	103	15.2 - 179				
Matrix Spike Dup (B4I0821-MSD1)	e Dup (B4I0821-MSD1) Source: 2401508-01 Prepared: 9/24/2024 Analyzed: 9/2						9/27/2024				
Mercury	0.476535	0.10	0.01	0.416667	0.026286	108	15.2 - 179	4.69	20		



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Huntington Beach , CA92647

Project Number: Santa Monica High School / 20240833-H6121

Report To: Adam Chamaa

Reported : 10/01/2024

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit Notes
Batch B4I0821 - EPA 7471_S Post Spike (B4I0821-PS1) Mercury	0.005954	Source: 24	01508-01 5.00000E-3	3.154E-4	Prepared: 9/2 113	4/2024 Analyzed: 85 - 115	: 9/27/2024	



AESCO

17782 Georgetown Lane

Huntington Beach , CA92647

Project Number: Santa Monica High School / 20240833-H6121

Report To: Adam Chamaa

Reported : 10/01/2024

Diesel and Oil Range Organics by EPA 8015B - Quality Control

	Result	PQL	MDL	Spike	Source		% Rec		RPD		
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit Notes		
Batch B4I0819 - GCSEMI_DRC	D_S										
Blank (B4I0819-BLK1) Prepared: 9/24/2024 Analyzed: 9/25/2024											
DRO	ND	5.0	0.02								
ORO	ND	5.0	0.02								
Surrogate: p-Terphenyl	55.98			80.0000		70.0	-6.76 - 189				
LCS (B4I0819-BS1)					Prepared: 9/24/2024 Analyzed: 9/25/2024						
DRO	818.520	5.0	0.02	1000.00		81.9	77.1 - 122				
Surrogate: p-Terphenyl	60.78			80.0000		76.0	-6.76 - 189				
Matrix Spike (B4I0819-MS1)		Sou	ırce: 240150	08-01 Prepared: 9/24/2024 Analyzed: 9/25/2024							
DRO	801.227	5.0	0.02	990.099	46.7520	76.2	37 - 159				
Surrogate: p-Terphenyl	56.82			79.2079		71.7	-6.76 - 189				
Matrix Spike Dup (B4I0819-MSD1))	Source: 2401508-01			Prepared: 9/24/2024 Analyzed: 9/25/202						
DRO	796.693	5.0	0.02	990.099	46.7520	75.7	37 - 159	0.567	20		
Surrogate: p-Terphenyl	56.85			79.2079		71.8	-6.76 - 189				



AESCO

2401508

17782 Georgetown Ln., Huntington Beach, CA 92647 (714) 375-3830 Fax: (714) 375-3831 CHAIN OF CUSTODY RECORD

Date: 9/24/2024 Page: 1 of 1

3.400

Client:	Contracting		Laboratory Name: ATL, 3275 Walnut Avenue, Signat Hill, Ca 90755									
Address:			Project Manager Adam Chamaa, P.E., G.E.						Sam s ntact YesNo Courity seals intact YesNo			
	601 Pico Blvd. Santa Monica, CA 90405			Phone No. 714-37					Sample	Ambient Cooled X Frozen Day 72Hr.		
Project Name	Project Name Santa Monica High Sch		oo Sampler: (signature) /					(5 Day X	48Hr		
Aesco Pro	oject NO.	20240833-H6121	rhvs.kuzmi	rhys.kuzmic@aescotech.com			uzmic		· · · · · · · · · · · · · · · · · · ·			
					A Property Constrained and the Property of the second second second second second second second second second s		IPLE TYPE		Susp.	EPA Test Method 8015B (Diesel Range Organics		
Sample ID De	Depth	Description, f Sample	DATE	TIME	WATER	AIR	SOLID	Cntnrs (Contam.	(DRO)/Oil Range Organics (ORO)) EPA Test Method 6010B (Metals (ICP) (including Arser EPA Test Method 7471A (Mercury (CVAA))		
H6121-01	N/A	Soil at site of demolished South Gym Building	9/23/2024	12:00PM			x	1				
	-	_						-				
					**********	-		**	***			
									-			
		997 (1997) (1997			an and a second s			14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -				
ineqRuished RhysKuzmio	c 09/24/202	.4 j%.()[-,		nngle.			1 1 1	4 1228	I hereby	authorize the performance of the above work.		
Relinquished	d by: (signa	ture)	Received b (signature)	•	ori for analy	sis:	Dóte/Tir	me				