



SAMPLE DATA

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25 08:20
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -1	SDG No.:	Q2393
Lab Sample ID:	Q2393-01	Matrix:	SOIL
		% Solid:	83.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.085	J	1	0.048	0.29	mg/Kg	06/24/25 09:00	06/25/25 10:43	9012B
pH	6.08	H	1	0	0	pH		06/25/25 08:30	9045D

Comments: pH result reported at temperature 24.4 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25 08:28
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -2	SDG No.:	Q2393
Lab Sample ID:	Q2393-03	Matrix:	SOIL
		% Solid:	83.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.071	J	1	0.050	0.30	mg/Kg	06/24/25 09:00	06/25/25 10:43	9012B
pH	5.60	H	1	0	0	pH		06/25/25 08:40	9045D

Comments: pH result reported at temperature 24.7 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25 08:32
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -3	SDG No.:	Q2393
Lab Sample ID:	Q2393-05	Matrix:	SOIL
		% Solid:	86.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.14	J	1	0.047	0.28	mg/Kg	06/24/25 09:00	06/25/25 10:47	9012B
pH	9.75	H	1	0	0	pH		06/25/25 08:50	9045D

Comments: pH result reported at temperature 25.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25 08:37
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -4	SDG No.:	Q2393
Lab Sample ID:	Q2393-07	Matrix:	SOIL
		% Solid:	87.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.23	J	1	0.047	0.28	mg/Kg	06/24/25 09:00	06/25/25 10:48	9012B
pH	10.1	H	1	0	0	pH		06/25/25 09:10	9045D

Comments: pH result reported at temperature 24.9 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25 08:43
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -5	SDG No.:	Q2393
Lab Sample ID:	Q2393-09	Matrix:	SOIL
		% Solid:	91.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	J	1	0.044	0.26	mg/Kg	06/24/25 09:00	06/25/25 10:48	9012B
pH	9.46	H	1	0	0	pH		06/25/25 09:15	9045D

Comments: pH result reported at temperature 25.0 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25 08:52
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -6	SDG No.:	Q2393
Lab Sample ID:	Q2393-11	Matrix:	SOIL
		% Solid:	86.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.15	J	1	0.048	0.29	mg/Kg	06/24/25 09:00	06/25/25 10:54	9012B
pH	9.77	H	1	0	0	pH		06/25/25 09:25	9045D

Comments: pH result reported at temperature 24.6 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Union Paving & Construction Company

SDG No.: Q2393

Project: 190 Park Ave Hanover Twp NJ - PO 2556-001

RunNo.: LB136256

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	7.01	7	100	90-110	06/25/2025
Sample ID: CCV1 pH	pH	2.01	2.00	101	90-110	06/25/2025
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	06/25/2025

Initial and Continuing Calibration Verification

Client: Union Paving & Construction Company

SDG No.: Q2393

Project: 190 Park Ave Hanover Twp NJ - PO 2556-001

RunNo.: LB136259

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Cyanide		mg/L	0.096	0.099	97	90-110	06/25/2025
Sample ID:	CCV1						
Cyanide		mg/L	0.24	0.25	96	90-110	06/25/2025
Sample ID:	CCV2						
Cyanide		mg/L	0.24	0.25	96	90-110	06/25/2025
Sample ID:	CCV3						
Cyanide		mg/L	0.24	0.25	96	90-110	06/25/2025

Initial and Continuing Calibration Blank Summary

Client: Union Paving & Construction Company

SDG No.: Q2393

Project: 190 Park Ave Hanover Twp NJ - PO 2556-001

RunNo.: LB136259

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	0.0016	0.0025	J	0.00096	0.005	06/25/2025
Sample ID: CCB1 Cyanide	mg/L	0.0015	0.0025	J	0.00096	0.005	06/25/2025
Sample ID: CCB2 Cyanide	mg/L	0.0012	0.0025	J	0.00096	0.005	06/25/2025
Sample ID: CCB3 Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	06/25/2025

Preparation Blank Summary

Client: Union Paving & Construction Company

SDG No.: Q2393

Project: 190 Park Ave Hanover Twp NJ - PO 2556-001

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	PB168604BL mg/Kg	0.067	0.1250	J	0.042	0.25	06/25/2025

Matrix Spike Summary

Client:	Union Paving & Construction Company	SDG No.:	Q2393
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Sample ID:	Q2392-01
Client ID:	S-1MS	Percent Solids for Spike Sample:	92.2

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.00		0.087	J	2.1	1	91		06/25/2025

Matrix Spike Summary

Client:	Union Paving & Construction Company	SDG No.:	Q2393
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Sample ID:	Q2392-01
Client ID:	S-1MSD	Percent Solids for Spike Sample:	92.2

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.00		0.087	J	2.1	1	91		06/25/2025

Duplicate Sample Summary

Client:	Union Paving & Construction Company	SDG No.:	Q2393
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Sample ID:	Q2392-01
Client ID:	S-1DUP	Percent Solids for Spike Sample:	92.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.087	J	0.079	J	1	10		06/25/2025

Duplicate Sample Summary

Client:	Union Paving & Construction Company	SDG No.:	Q2393
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Sample ID:	Q2392-01
Client ID:	S-1MSD	Percent Solids for Spike Sample:	92.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.00		2.00		1	0		06/25/2025

Duplicate Sample Summary

Client: Union Paving & Construction Company Project: 190 Park Ave Hanover Twp NJ - PO 2556-001 Client ID: PARK AVE -1DUP	SDG No.: Q2393 Sample ID: Q2393-01 Percent Solids for Spike Sample: 83.3
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	6.08		6.10		1	0.33		06/25/2025

Laboratory Control Sample Summary

Client:	Union Paving & Construction Company	SDG No.:	Q2393
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Run No.:	LB136259

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168604BS							
Cyanide	mg/Kg	5	4.90		98	1	85-115	06/25/2025

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136256

Review By	jignesh	Review On	6/25/2025 8:44:05 AM
Supervise By	Iwona	Supervise On	6/25/2025 10:38:49 AM
SubDirectory	LB136256	Test	pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3200		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/25/25 08:10		Jignesh	OK
2	CAL2	CAL2	CAL	06/25/25 08:11		Jignesh	OK
3	CAL3	CAL3	CAL	06/25/25 08:12		Jignesh	OK
4	ICV	ICV	ICV	06/25/25 08:15		Jignesh	OK
5	CCV1	CCV1	CCV	06/25/25 08:20		Jignesh	OK
6	Q2393-01	PARK AVE -1	SAM	06/25/25 08:30		Jignesh	OK
7	Q2393-01DUP	PARK AVE -1DUP	DUP	06/25/25 08:34		Jignesh	OK
8	Q2393-03	PARK AVE -2	SAM	06/25/25 08:40		Jignesh	OK
9	Q2393-05	PARK AVE -3	SAM	06/25/25 08:50		Jignesh	OK
10	Q2393-07	PARK AVE -4	SAM	06/25/25 09:10		Jignesh	OK
11	Q2393-09	PARK AVE -5	SAM	06/25/25 09:15		Jignesh	OK
12	Q2393-11	PARK AVE -6	SAM	06/25/25 09:25		Jignesh	OK
13	Q2410-01	TRE-25-0021	SAM	06/25/25 09:35		Jignesh	OK
14	CCV2	CCV2	CCV	06/25/25 09:40		Jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136259

Review By	rubina	Review On	6/26/2025 9:09:48 AM
Supervise By	Iwona	Supervise On	6/26/2025 9:59:56 AM
SubDirectory	LB136259	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP113660,WP113661,WP113662,WP113663,WP113664,WP113665,WP113666		
ICV Standard	W3012		
CCV Standard	WP113661		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112995		
Chk Standard	WP112643,WP112900,WP113668		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/25/25 09:56		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/25/25 09:56		rubina	OK
3	10PPBCN	10PPBCN	CAL3	06/25/25 09:56		rubina	OK
4	50PPBCN	50PPBCN	CAL4	06/25/25 09:56		rubina	OK
5	100PPBCN	100PPBCN	CAL5	06/25/25 09:56		rubina	OK
6	250PPBCN	250PPBCN	CAL6	06/25/25 09:56		rubina	OK
7	500PPBCN	500PPBCN	CAL7	06/25/25 09:56		rubina	OK
8	ICV1	ICV1	ICV	06/25/25 10:28		rubina	OK
9	ICB1	ICB1	ICB	06/25/25 10:28		rubina	OK
10	CCV1	CCV1	CCV	06/25/25 10:28		rubina	OK
11	CCB1	CCB1	CCB	06/25/25 10:28		rubina	OK
12	PB168604BL	PB168604BL	MB	06/25/25 10:28		rubina	OK
13	PB168604BS	PB168604BS	LCS	06/25/25 10:28		rubina	OK
14	LOWPB168604	LOWPB168604	SAM	06/25/25 10:35		rubina	OK
15	HIGHPB168604	HIGHPB168604	SAM	06/25/25 10:35		rubina	OK
16	Q2392-01	S-1	SAM	06/25/25 10:35		rubina	OK
17	Q2392-01DUP	S-1DUP	DUP	06/25/25 10:35		rubina	OK
18	Q2392-01MS	S-1MS	MS	06/25/25 10:43		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136259

Review By	rubina	Review On	6/26/2025 9:09:48 AM
Supervise By	Iwona	Supervise On	6/26/2025 9:59:56 AM
SubDirectory	LB136259	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP113660,WP113661,WP113662,WP113663,WP113664,WP113665,WP113666		
ICV Standard	W3012		
CCV Standard	WP113661		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112995		
Chk Standard	WP112643,WP112900,WP113668		

19	Q2392-01MSD	S-1MSD	MSD	06/25/25 10:43		rubina	OK
20	Q2393-01	PARK AVE -1	SAM	06/25/25 10:43		rubina	OK
21	Q2393-03	PARK AVE -2	SAM	06/25/25 10:43		rubina	OK
22	CCV2	CCV2	CCV	06/25/25 10:43		rubina	OK
23	CCB2	CCB2	CCB	06/25/25 10:47		rubina	OK
24	Q2393-05	PARK AVE -3	SAM	06/25/25 10:47		rubina	OK
25	Q2393-07	PARK AVE -4	SAM	06/25/25 10:48		rubina	OK
26	Q2393-09	PARK AVE -5	SAM	06/25/25 10:48		rubina	OK
27	Q2393-11	PARK AVE -6	SAM	06/25/25 10:54		rubina	OK
28	CCV3	CCV3	CCV	06/25/25 10:54		rubina	OK
29	CCB3	CCB3	CCB	06/25/25 10:54		rubina	OK

LAB CHRONICLE

OrderID:	Q2393	OrderDate:	6/23/2025 11:43:58 AM
Client:	Union Paving & Construction Company	Project:	190 Park Ave Hanover Twp NJ - PO 2556-001
Contact:	Gerard Busacco	Location:	A22,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2393-01	PARK AVE -1	SOIL			06/23/25 08:20	06/24/25	06/25/25 10:43	06/23/25
			Cyanide	9012B				
			pH	9045D			06/25/25 08:30	
Q2393-03	PARK AVE -2	SOIL			06/23/25 08:28	06/24/25	06/25/25 10:43	06/23/25
			Cyanide	9012B				
			pH	9045D			06/25/25 08:40	
Q2393-05	PARK AVE -3	SOIL			06/23/25 08:32	06/24/25	06/25/25 10:47	06/23/25
			Cyanide	9012B				
			pH	9045D			06/25/25 08:50	
Q2393-07	PARK AVE -4	SOIL			06/23/25 08:37	06/24/25	06/25/25 10:48	06/23/25
			Cyanide	9012B				
			pH	9045D			06/25/25 09:10	
Q2393-09	PARK AVE -5	SOIL			06/23/25 08:43	06/24/25	06/25/25 10:48	06/23/25
			Cyanide	9012B				

LAB CHRONICLE								
Q2393-11	PARK AVE -6	SOIL	pH	9045D	06/23/25 08:52	06/24/25	06/25/25 09:15	06/23/25
			Cyanide	9012B			06/25/25 10:54	
			pH	9045D			06/25/25 09:25	

A

C

D

E

F

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-21

SDG No : N/A

Start Digest Date: 06/24/2025 **Time :** 09:00 **Temp :** 124 °C

Matrix : SOIL

End Digest Date: 06/24/2025 **Time :** 10:30 **Temp :** 126 °C

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : MC-1,MC-2

Filter paper ID : N/A

Prep Technician Signature:
Weigh By : JP

pH Meter ID : N/A

Supervisor Signature:

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP112995
MS/MSD SPIKE SOL.	0.40ML	WP113319
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
50% v/v H2SO4	5.0ML	WP112826
51% w/v MgCL2	2.0ML	WP112827
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3012
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	WP113319
LOWSTD	LOWSTD	0.1ML	WP113319

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/24/2025 10:45	JP / GCE	RH (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168604BL	PBS604	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168604BS	LCS604	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2392-01DUP	S-1DUP	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2392-01MS	S-1MS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2392-01MSD	S-1MSD	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2392-01	S-1	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2393-01	PARK AVE -1	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2393-03	PARK AVE -2	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2393-05	PARK AVE -3	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2393-07	PARK AVE -4	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2393-09	PARK AVE -5	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2393-11	PARK AVE -6	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A