Department of

Mines and Petroloum Resources

ASSESSMENT REPORT

on

A GEOCHEMICAL REPORT

THE ST CLAIMS

No. 3461

Germansen Landing Area Omineca Mining Division, B. C.

Latitude 55⁰52' North Longitude 125⁰15' West

93 N / 14W

(8 Miles north of Old Hogem)

Including:

<u>C1a</u>	nim	Record	No.
ST	11-43	92107	-92139
ST	46	92142	
ST	48	92144	
ST	50	92146	
ST	52	92148	1.00
ST	54	92150	
ST	56	92152	
ST	58	92154	

by

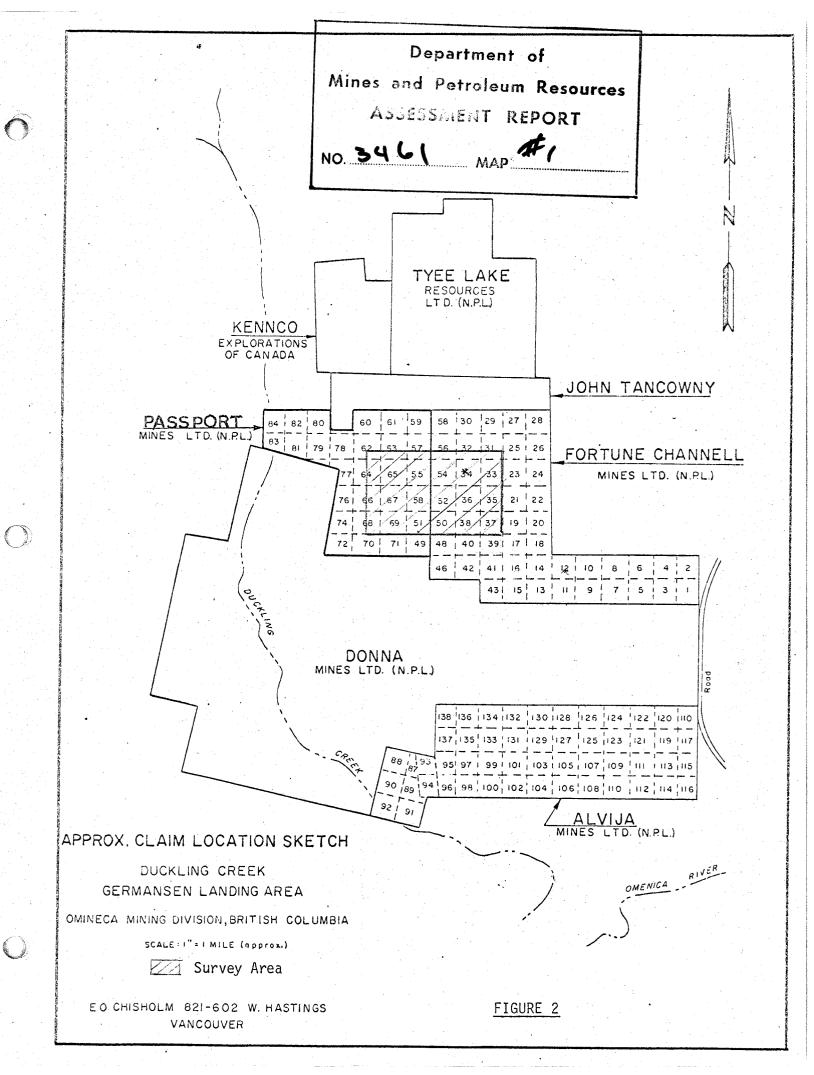
E. O. CHISHOLM, M.A., P.ENG.

NOVEMBER 15, 1971

Registered Owner of Claims:
FORTUNE CHANNEL MINES LTD. (N.P.L.) (WOPACO AGENCIES LTD.)

Work Performed by:

- J. Todd, 642 Clark Drive, Vancouver, B.C.
- C. Soux, 642 Clark Drive, Vancouver, B.C.
- P. Fraser, P.O. Box 369, Houston, B.C.



Fortune Channel Mines Ltd.

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MAPS

Figure 1 - Geochemical Soil Survey Pocket

| Figure 2 - Location Map Front

$\underline{\mathsf{S}\ \mathsf{U}\ \mathsf{M}\ \mathsf{M}\ \mathsf{A}\ \mathsf{R}\ \mathsf{Y}}$

During the period July 24th to August 30th, 1971, a Geochemical Survey was carried out on the ST Group of Claims by James Todd and Associates for Fortune Channel Mines Ltd., the owners of the claim group.

Part of the claim group was covered by geochemical soil survey for copper on a 400 foot grid. No copper anomalous zones were encountered.

The property consists of 31 full sized claims and one fraction claim as follows:

<u>Claim</u> <u>Re</u>	
ST 46 ST 48 ST 50 ST 52 ST 54 ST 56	92107-92139 92142 92144 92146 92148 92150 92152 92154

The evaluation of any legal aspects of the claims is beyond the scope of this report.

LOCATION & ACCESS

The mining claims under discussion are located on the Duckling River, Omineca Mining Division, British Columbia, approximately eight miles northeast of the Indian Village of Old Hogem on the Omineca River. The nearest settlement is Germansen Landing, 24 miles to the east. This is a service point for the area, located on a main gravel highway northwards from Fort St. James on the P.G.E. railway approximately 100 miles.

The Fortune Channel property is accessible by a B. C. Development gravel road along the north side of the Omineca River to within 4 miles of the property. From there a trail is being bulldozed to the property but was not completed at the time of writing. The quickest route to the property at present is by float plane to Germansen Landing from Fort St. James or Frazer Lake 120 miles away, and by helicopter from there, 24 miles to a location on the claim group.

The attached location map is approximate in position only as the claims have been recently staked and no survey has been made.

Reference Maps:

- 1. G.S.C. 907A, Fort St. James Area, B.C. 6 mi. (Geology)
- 2. G.S.C. 844A, Takla Area, B.C. 4 mi. (Geology)
- 3. N.T.S. 93-N, Manson River, B.C. 4 mi. (Topography)

TOPOGRAPHY

The property lies on the west slope of the Kwanika Mountains which form part of the Omineca-Cassiar Batholith extending in a northwest-erly direction across the region. The discovery showing lies at an elevation of approximately 5500 feet at timberline; the claims are staked in an east / west direction to Duckling Creek at an elevation of 4000 feet.

The topography, though rugged throughout the area, is rolling with moderate vegetation covered slopes and can be easily traversed on foot. There is sufficient talus and overburden to facilitate relatively easy road building by bulldozer over most of the property. Outcrops are abundant above timberline at approximately 5000 feet but below this the ground is mainly covered with a mantle of glacial overburden, talus debris and organic forest growth. Less than 5 percent of rock is exposed there.

The elevation and topography are such that year-round exploration and development can be carried out. Duckling Creek crosses the area a short distance west of the claims and forms a valley some half/mile across. The creek itself is a plentiful source of water and is fordable by bulldozer. The area was extensively glaciated and till extends to elevations of 5000 ft. in some cases. The main ice movement was easterly but locally conformed to valley features.

Climate is relatively moderate with mild summers and cold

winters. Winter conditions can be expected about the first week in November although snow may be expected at the elevation of the claim group from September onwards and generally remains after October 1st. Snowfall of from 6 to 20 feet can be expected in the mountains and remains until the middle of May.

Tree cover is abundant in all valleys and on mountain slopes to 5000 feet.

HISTORY & ACTIVITY

The Fort St. James area itself has a history of prolific mineral discoveries which include a great diversity of deposits ranging from the large scale open-pit molybdenum operation at Endako Mines, the gold placer operation on the Omineca River and the mercury deposits in the Pinchie Lake area. (G.S.C. Map 907A). The only remaining producer is the Endako Mine near Frazer Lake 130 miles south. Pinchie Lake Mercury Mines, 85 miles to the southeast are being re-opened by Consolidated Mining and Smelting Co. Present exploration efforts however are concentrated in the search for large scale low grade open pit copper/molybdenum deposits. Several such deposits are in production or in the feasibility study stage in the adjoining Smithers area.

To the south of the ST Group and in the same geological environment, six copper prospects are under investigation. These are as follows:

- (1) and (2) Donna Mines Ltd. copper prospect in gabbroic rock.
- (3) Union Miniere Exploration Co. copper prospect.
- (4) Kennco Explorations copper prospect.
- (5) Tyee Lake Resources copper prospect in granitic rocks.
- (6) Granby Mines Ltd. Duckling Creek copper prospect.

The Granby property is currently being diamond drilled. It is described by Armstrong (1) as follows:

"Copper minerals were observed over an area 500 feet wide by 1800 feet long through a vertical range of more than 600 feet. In this area the rocks are stained with malachite and contain skecks and small stringers commomly less than 1/4 inch wide and 6 inches long of malachite, chalcopyrite, bornite and pyrite. Most of the stringers are along fractures or planes of schistosity. A few grains of galena were noted. The quartz veins are well impregnated with copper minerals, but most of the pyrrhotite veins are not, although some contain pyrite. The entire showing would probably average less than 1 percent copper and a few cents of gold per ton."

(1) J.E. Armstrong, G.S.C. Memoir 252, 1965, Page 183.

The rock host is a monzonite/syenitic stock that intrudes the Omineca granite batholith.

The original Duckling Creek copper discovery was made by geologist George O. M. Stewart of Vancouver while prospecting in the area several years ago. He returned to the area in the summer of 1970 and in the course of staking claims along strike of the showing, discovered a second copper occurrence 3500 feet to the west. The writer discovered a third occurrence during the examination of the Donna Mines property in August 1970 a further 3000 feet to the west along strike. Up to this point no detailed

work of any kind had been done on the showings and they can be classified as new discoveries in the primary exploration stage.

The Fortune Channel property at this time can be classified as potentially favourable due to its proximity to recent finds on the Donna Mines property to the south and the Tyee Resources property to the north, which are underlain by similar rock types.

In the past, exploration has been mainly confined to the sedimentary volcanic belts of Paleozoic rocks to the southwest of the Pinchie
Lake fault system that crosses the area in a northwesterly direction. The
volcanic intrusive border phase of the Hogem Batholith where the recent
discoveries have been made warrants more detailed investigation for porphyry
and vein type copper deposits.

GENERAL GEOLOGY

The Geological Survey of Canada published the following report on the area under discussion:-

J.E. Armstrong, 1965 Memoir 252 - "Fort St. James Map Area, Cassiar and Coast Districts, British Columbia"

The following table of geological formations present in the property area are adopted from J.E. Armstrong:

MESOZOIC

JURASSIC or CRETACEOUS(?)

Upper Jurassic or

Lower Cretaceous

OMINECA INTRUSION

(6) Granodiorite, quartz diorite, diorite; minor granite, syenite, gabbro and pyroxenite.

TRIASSIC and JURASSIC

Upper Triassic and later.

TAKLA GROUP

- (4) Upper Triassic: shale, greywacke, conglomerate, tuff and limestone.
- (3) Upper Triassic and Jurassic:
 Andesitic and basaltic flows;
 tuffs and breccias and agglomerates; interbedded conglomerate shale; greywacke, limestone
 and coal.

The name Omineca Intrusion has been applied to numerous bodies of intrusive rocks believed to be of Upper Jurassic or Lower Cretaceous Age, that are exposed in the Omineca Mountains. They range in size from small sills and dikes to batholiths and in composition from granite to pyroxenite with granodiorite predominating.

GEOCHEMICAL SURVEY

A Geochemical Survey was carried out over part of the claim group on a 400 foot grid system as shown on the accompanying plan (Fig.1). Samples were taken at 400 foot intervals on lines 400 feet apart and all locations flagged. The survey work was carried out jointly over the adjoining ST Group of Passport Mines Ltd. as well as the ST group of Fortune Channel Mines. A copy of all assay results is attached.

Twelve claims of the Fortune Channel property were covered as follows:

ST 31 to 38 inclusive and 50, 52, 54 and 56, as shown on attached Figure 2.

Samples were taken with a stainless steel auger from the "B" soil zone where possible, at a depth of approximately 6 inches. In some areas the "B" zone was not apparent and the "A" zone was sampled. Samples were placed in heavy Kraft envelopes and shipped to Can Test Ltd., 1650 Pandora Street, Vancouver 6, B.C. for analysis for copper by the Atomic Absorption method. This process involves drying the samples, screening to -80 mesh for analysis for copper using perchloric acid digestion and atomic absorption determination of the copper present in the soil sample. The results of the work are shown in Figure 1.

DISCUSSION OF RESULTS

The background of the copper in the soil samples from the group is 30 parts per million. Threshhold values of from 50 to 60 parts per million are of interest and anomalous values are classed as above 100 parts per million. A few spot high values for copper were obtained, but no consistent anomalies emerged from the survey.

It is concluded that there are no copper anomalous zones indicated by the soil survey.

Respectfully submitted,

Edward O. Chisholm, P.Eng.

Fortune Channel Mines Ltd. -10

APPENDIX I

SUMMARY OF COSTS

Line Cutting and Mapping - 10 miles \$ 1,800.00

Soil Sampling @ 400 ft. stations 2,200.00

TOTAL *

\$ 4,000.00

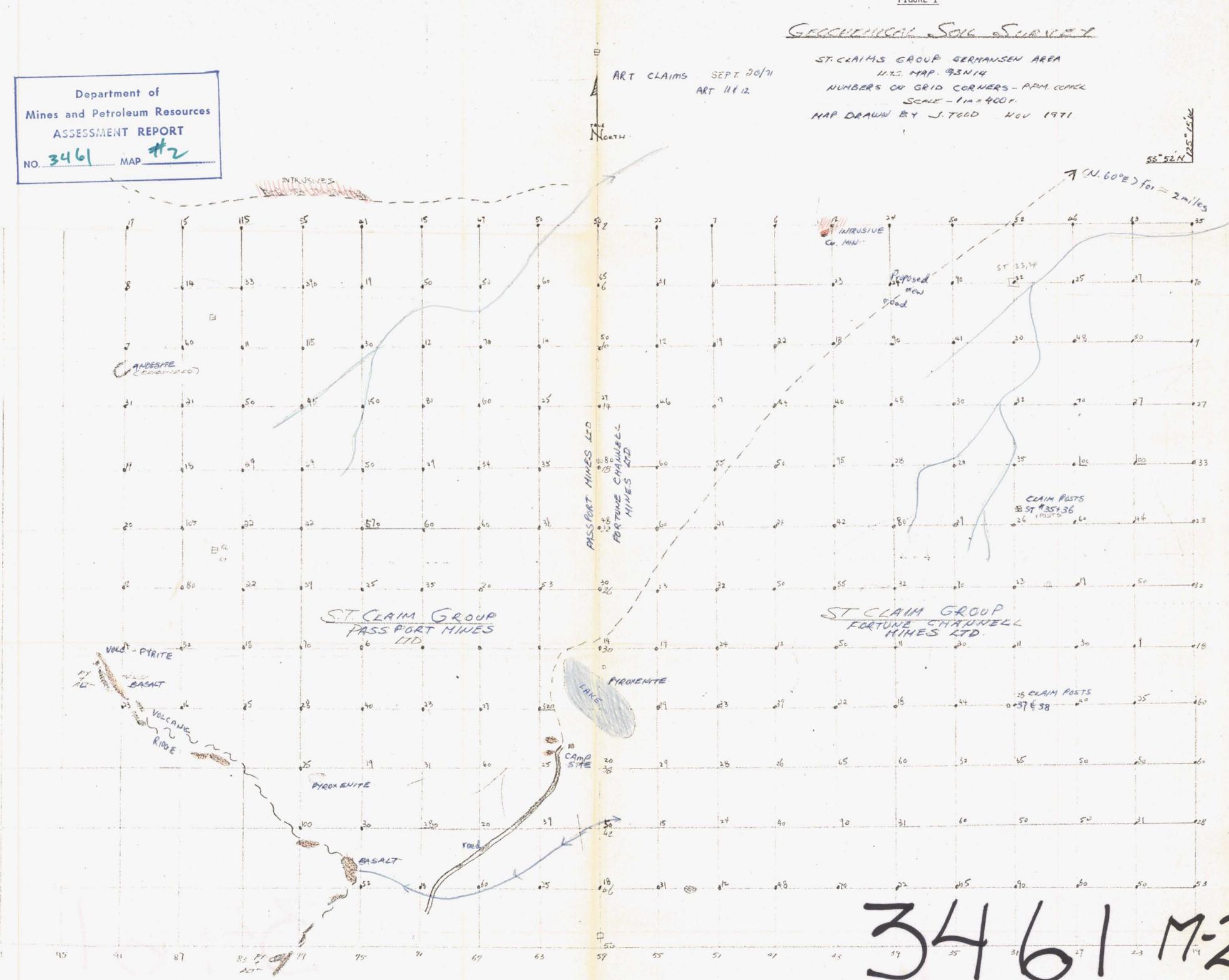
LIST OF PERSONNEL

James Todd Party Chief 642 Clark Drive, Vancouver, B.C.

Cristian Soux Sampler c/o 642 Clark Drive, Vancouver

Philip Fraser Line Cutter Box 369, Houston, B.C.

FIGURE 1



ZAN TEST LTD.

1650 PANDORA STREET, VANCOUVER 6, B.C. . TELEPHONE 254-7278

Report On	Geochemical Analysis	File No. 2062 A
	사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	Report No.
Reported to	Passport Mines Ltd.	Date September 29, 1971
	642 Clark Drive	
	Vancouver 6, B.C.	
	Attention: Mr. I. Todd	

We have tested 218 soil samples submitted by you and report as follows:

Test Results

Sample Number	Copper (Cu) ppm	Sample Number	Copper (Cu) ppm
91 W 2S	17	59 W 6 S	65
87 W 2 S	15	63 W 6 S	60
83 W 2 S	115	67 W 6 S	50
79 W 2 S	55	71 W 6 S	50
71 W 2 S	15	75 W 6 S	19
75 W 2 S	41	83 W 6 S	33
67 W 2 S	47	79 W 6 S	390
63 W 2 S	50	87 W 6 S	14
59 W 2 S	50	91 W 65	8
55 W 2 S	22	19 W 10 S	9
51 W 2 S		23 W 10 S	50
47 W 2 S	6	27 W 10 S	48
43 W 2 S	12	31 W 10 S	20
39 W 2 S	24	35 W 10 \$	41
35 W 2 S	50	39 W 10 S	90
31 W 2 S	52	43 W 10 S	18
27 W 2 S	46	47 W 10 S	22
23 W 2 S	33	51 W 10 S	19
19 W 2 S	35 A Section 1	55 W 10 S	12
15 W 2 S	19	59 W 10 S	50
15 W 6 S	18	63 W 10 S	14
19 W 6 S	70	67 W 10 S	70

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유민이 이 이 회사가 가능했다는 사람들이	그님, 그녀는 그리고 하게 걸려서 있다. 양	[일일] 불러되는 공하 의하다는 오려움.	rage Z
Sample Number	Copper (Cu) ppm	<u>Sample Number</u>	Copper (Cu) ppm
23 W 6 S	37	71 W 10 S	12
27 W 6 S	25	75 W 10 S	30
31 W 6 S	32	79 W 10 S	115
35 W 6 S	90	83 W 10 S	
39 W 6 S	24	87 W 10 S	60
43 W 6 S	23	91 W 10 S	
51 W 6 S		19 W 14 S	27
55 W 6 S	31	23 W 14 S	27
27 W 14 S	70	71 W 18 S	29
31 W 14 S	32	75 W 18 S	50
35 W 14 S	30	79 W 18 S	29
39 W 1 S	48	83 W 18 S	29
43 W 14 S	40	87 W 18 S	18
47 W 14 S	44	91 W 18 S	19
51 w 14 s	17	19 W 22 S	23
55 W 14 S	46	23 W 22 S	44
59 W 14 S	27	27 W 22 S	60
63 W 14 S	25	31 W 22 S	26
67 W 14 S	60	35 W 22 S	29
71 W 14 S	80	39 W 22 S	80
75 W 14 S	150	43 W 22 S	42
79 W 14 S	95	47 W 22 S	24
83 W 14 S	50	51 W 22 S	21
87 W 14 S	21	55 W 22 S	60
91 W 14 S	31	59 W 22 S	48
19 W 18 S	33	63 W 22 S	38
23 W 18 S	100	67 W 22 S	60
27 W 18 S	100	71 W 22 S	60
31 W 18 S	35	75 W 22 S	570
35 W 18 S	20	79 W 22 S	22
39 W 18 S	28	83 W 22 S	22
43 W 18 S	95	87 W 22 S	105
47 W 18 S	50	91 W 22 S	20
51 W 18 S	55	19 W 26 S	32
55 W 18 S	60	23 W 26 S	50
	医乳腺素 化环状二烯 经自己 化二氯化二氯 医动物性 化二二氯化物		

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<u>Sample Number</u>	Copper (Cu) ppm	Sample Number	Copper (Cu) ppm
59 W 18 S	80	27 W 26 S	
63 W 18 S	35	31 W 26 S	19
67 W 18 S	34	35 W 26 S	23
39 W 26 S	32	83 W 30 S	70
43 W 26 S	55	87 W 30 S	
47 W 26 S	50	91 W 30 S	
51 W 26 S	32	19 W 34 S	
55 W 26 S	23	23 W 34 S	60
59 W 26 S	30	27 W 34 S	25
63 W 26 S	53 (5)	31 W 34 S	40
67 W 26 S	20	35 W 34 S	28
71 W 26 S	35	39 W 34 S	
75 W 26 s	25	43 W 34 S	18
83 W 26 S	22	47 W 34 S	21.5
79 W 26 S	39	하이 그 사람들이 만든 하는 그는 이 회사들만	37
87 W 26 S		51 W 34 S	32.5
91 W 26 S	12	55 W 34 S	39
19 W 30 S		59 W 34 S	No Sample
23 W 30 S	9	63 W 34 S	320
27 W 30 S		67 W 34 S	27
31 w 30 s		71 W 34 S	23
35 W 30 S	20	75 W 34 S	40
39 W 30 S	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	79 W 34 S	28
43 W 30 S	50	83 W 34 S	25
47 W 30 S	12	87 w 34 s	16
51 W 30 S	24	91 W 34 S	23
55 W 30 S	2-7 19	19 W 38 S	60
59 W 30 S		23 W 38 S	50
63 w 30 s	15	27 W 38 S	50
67 w 30 s	70	31 W 38 S	65
71 W 30 S		35 W 38 S	32
75 W 30 s	27	39 W 38 S	60
79 W 30 S	6	43 W 38 S	65
51 W 38 S	70	47 W 38 S	26
	28	47 W 46 S	48

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Sample Number	Copper (Cu) ppm	Sample Number	Copper (Cu) ppm
55 W 38 S	29	51 W 46 S	12
59 W 38 S	20	55 W 46 \$	31
63 W 38 S	25	59 W 46 S	18
67 W 38 \$	60	63 W 46 S	25
71 W 38 S	31	67 W 46 S	60
75 W 38 S	19	71 W 46 S	18
79 W 38 S	25	75 W 46 S	52
19 W 42 S	28		
23 W 42 S	30.5		
27 W 42 S	50	기름이 없어요. 아이라 있다는 기름이 있는 실행하는 아이들이 말라고 있다는 것 같다.	
31 W 42 S	50		
35 W 42 S	60	요즘 내가 들어가 된다. 글로 10년. 본래도 보이 전에 다 이름 10년 12년	
39 W 42 S	31		
43 W 42 S	90		
47 W 42 S	40	시설 등사 교사는 제 교육으로 가는 경기 본경기 교육의 본격을 받아 되었다.	
51 W 42 S	24		
55 W 42 S	44.15		
59 W 42 S	50		
63 W 42 S	39		
67 W 42 S	20		
71 W 42 S 75 W 42 S	280 30		
79 W 42 S	1.00		
19 W 46 S	53	실명 등 교육 시간 기업 등 중심 등 함께 실명하는 경기를 하는 것이 되었다. 실명하는 경기를 하는 것이 되었다.	경우리 공연성도
23 W 46 S	50		
27 W 46 S	60	CAN TEST LTD.	
31 w 46 s	90		
35 W 26 S	105		
39 w 46 s	22	D. Timuss	
43 W 46 S	70	Brovincial As	ssayer

" THM NO: