

Voice / Narration

AUDIO

<p>07:00 MARK ANGELO</p>	<p>MY DAD IN THE LATE 60S BROUGHT HOME A PHOTOGRAPH OF EARTH AS SEEN FROM OUTERSPACE AND I WAS SO IMPRESSED BY IT, BUT ONE IT MADE ME REALIZE IN THE OVERALL SCHEME OF THINGS THAT OUR PLANET IS QUITE SMALL AND QUITE FINITE. THE OTHER THING THAT WAS VERY NOTICEABLE IS I MEAN CLEARLY IT'S A BLUE PLANET, BUT OF ALL THE WATER ON THIS EARTH, 97% IS SALINE, IT'S IN THE OCEANS; 2% IS LOCKED UP IN ICE, THAT ONLY LEAVES US 1% THAT'S FOUND IN LAKES AND RIVERS, AND A LOT OF THAT WATER IN NOT ACCESSIBLE. SO REALLY WHEN YOU TALK ABOUT IT, WHEN YOU REALLY YOU COME DOWN TO IT, WE HAVE A VERY SMALL AMOUNT OF WATER AND THAT'S GOT TO ACCOMMODATE NOT ONLY THE NEEDS THAT HUMANS HAVE, FOR DRINKING WATER, BUT IT'S GOT TO ACCOMMODATE ALL OF THOSE OTHER NEEDS, AGRICULTURAL NEEDS, INDUSTRIAL NEEDS, SO I THINK WE HAVE TO TREAT WATER IN A MUCH MORE RESPECTFUL WAY, I THINK WE HAVE TO TREAT RIVERS IN A MUCH MORE RESPECTFUL WAY THAN WE HAVE IN THE PAST.</p>
<p>OPENING TITLES  01:03 KUMI NADOO VOICE</p>	<p>OPENING TITLE TREATMENT &amp; SOUNDTRACK  THE WARS OF THE FUTURE WILL NOT BE FOUGHT ABOUT OIL. THE WARS OF THE FUTURE IS GOING TO BE FOUGHT ABOUT WATER.</p>

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<p>02:38</p> <p>NARRATOR:</p>	<p>CHINA WITH MORE THAN 1.3 BILLION PEOPLE THIS IS THE MOST POPULOUS COUNTRY ON EARTH. THE STRESS TO SUPPLY CLEAN WATER IS ALMOST INSURMOUNTABLE AS THEIR RIVERS ARE FLOWING DISASTER ZONES. WORLD WATCH INSTITUTE WROTE THAT 70%OF CHINAS LAKES AND RIVERS ARE CONTAMINATED WHICH LEAVES LITTLE FRESH WATER FOR THE PEOPLE WHO RELY ON THEM. IN RECENT YEARS CHINA HAS GONE THROUGH A MAJOR TRANSFORMATION; ONCE AN IMPOVERISHED FARMING-RELIANT COUNTRY IT HAS NOW MORPHED INTO THE "FACTORY OF THE WORLD."</p> <p>NO OTHER COUNTRY EXPORTS MORE GOODS THAN CHINA DOES, BUT THAT CAME AT A HIGH PRICE</p> <p>THE WIDESPREAD DUMPING OF TOXIC CHEMICALS HAS POISONED RIVERS AND GROUNDWATER.</p>
<p>03:29</p> <p>MA JUN</p>	<p>I THINK IT'S ONE OF THE MOST CRITICAL ENVIRONMENTAL ISSUES IN CHINA. YOU KNOW WATER POLLUTION IS DAMAGING THE FRESHWATER BIODIVERSITY, BUT MORE THAN THAT IT'S ALSO CREATING SUCH A BIG PUBLIC HEALTH RISK. YOU KNOW POTENTIALLY, YOU KNOW NOW WE HAVE HUNDREDS OF MILLIONS OF PEOPLE EXPOSED TO WATER POLLUTION.</p>

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<p>03:50</p> <p>NARRATOR</p>	<p>MA JUN IS ONE OF CHINA'S MOST PROMINENT ENVIRONMENTAL ACTIVISTS. HE WAS NAMED ONE OF THE 100 MOST INFLUENTIAL PERSONS IN THE WORLD BY TIME MAGAZINE. MA'S BOOK TITLED CHINA'S WATER CRISIS WAS THAT COUNTRY'S FIRST BOOK FOCUSING ON CHINA'S POLLUTION PROBLEM.</p>
<p>04:10</p> <p>MA JUN</p>	<p>SO MANY PEOPLE LIVE ALONG THE RIVERS AND UH, AND IN THOSE COUNTRYSIDE YOU KNOW WHEN THE RIVERS GOT CONTAMINATED, THEY DIG A WELL, AND THEN THE SHELL AQUIFER, EASILY GOT. THEN WE STARTED SEEING PEOPLE GETTING SICK AND THEN THE UH, EXTRAORDINARY HIGH RATE OF, CANCER AND OTHER DISEASES, CROPPED UP, YOU KNOW CANCER VILLAGES CROPPED UP ALONG THOSE RIVERS.</p>
<p>04:38</p> <p>STEWART BUNN</p>	<p>THERE ARE PLACES THAT HAVE BEEN IDENTIFIED AND ACKNOWLEDGED AS, YOU KNOW, HAVING UNUSUALLY HIGH CANCERS ASSOCIATED WITH POOR WATER QUALITY. THEY DO HAVE PROBLEMS WITH DRINKING WATER SUPPLY WITH BLUE GREEN ALGAE TOXINS, SO THERE'S A HIGH INCIDENCE OF LIVER CANCERS THAT ARE ASSOCIATED WITH THAT.</p>
<p>04:59</p> <p>TIANJIE MA</p>	<p>IT'S ALWAYS A DISTURBING EXPEREINCE LOOKING AT THESE PICTURES, SO SOMETIMES I CHOOSE NOT TO LOOK AT THEM TOO OFTEN, BUT YOU HAVE TO GO THERE AND YOU HAVE TO DOCUMENT THEM, OTHERWISE THESE PEOPLE'S VOICE DOESN'T GET</p>

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	HEARD AND THEY NEED PEOPLE TO BE AWARE THAT THE COST OF DEVELOPEMNT THAT CHINA IS SUFFERING FROM.
05:23 STUART BUNN	THE APPROACH THAT'S BEEN TAKEN IN CHINA UP UNTIL NOW HAS BEEN, YOU KNOW, FIERCLY FOCUSED ON DEVELOPMENT AND THE ECONOMY AND THAT'S BEEN DONE WITH A FULL ACKNOWLEDGMENT OF WHAT THAT WILL DO TO THE ENVIRONMENT SO I THINK THAT A FULL UNDERSTANDING THAT THE ENVINROMENT WILL PAY THE PRICE FOR THAT, AND NOW THEY'VE REACHED THE POINT IN THAT DEVELOPMENT WHERE ACKNOWLEDGING THE SOCIAL, AND ENVIRONMENTAL AND THE HEALTH PROBLEMS ASSOCIATED, THAT NOW IS THE TIME TO ACT.
05:51 TIANJIE MA	RECENTLY WE HAVE, WE HAVE BIG CITIES WHERE THEIR WHOLE DRINKING WATER SOURCE ARE BEING THREATENED BY POLLUTION. YOU HAVE IN PAST YEARS SEVERAL CASES WHERE LIKE CITIES WITH SEVERAL MILLION POPULATION, HAVE TO SHUT DOWN THEIR WHOLE WATER SUPPLY BECAUSE THEY FEAR THAT THEIR DRINKING WATER SOURCE IS BEING CONTAMINATED.
06:13 STUART BUNN	THEY'VE GONE THROUGH A VERY, VERY RAPID STAGE OF INDUSTRIALIZATION, SO, YOU KNOW, IN THE LAST 40/50 YEARS

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	<p>WE'VE SEEN, MASSIVE INDUSTRIALIZATION, A LOT OF HYDRO POWER DEVELOPMENT AND A LOT OF INDUSTRIES DEVELOPMING WITHOUT ADEQUATE POLLUTION CONTROL. CITIES THAT ARE GROWING AT AN INCREDIBLE RATE SO, YOU KNOW, THE NUMBER OF CITIES OF MILLIONS OF PEOPLE HAS REALLY EXPANDED, AND SO THE WATERWAYS HAVE TAKEN THE BRUNT OF THAT DEVELOPMENT, AND AS YOU CAN IMAGINE THAT MANY OF THEM ARE IN AN APPALING STATE.</p>
<p>06:44 NARRATOR</p>	<p>IN RESPONSE TO WIDESPREAD ENVIRONMENTAL AND HEALTH PROBLEMS, ACTIVISTS IN CHINA FOCUSES THEIR INVESTIGATIONS ON WATER POLLUTION, AND DISCOVERED ONE OF THE MAJOR SOURCES LED THEM TO THE WESTERN MARKETS, WITH THE FASHION INDUSTRY AS ONE OF THE KEY SUSPECTS IN THE DESTRUCTION OF CHINA'S LAKES AND RIVERS.</p> <p>THESE ACTIVISTS HAVE PRODUCED CAMPAIGNS TO CREATE CONSUMER AWARENESS ON THE ISSUE.</p>
<p>07:13 FASHION DUEL NARRATOR</p>	<p>THESE ARE TOXIC SUBSTANCES RELEASED INTO OUR PRECIOUS LAKES AND RIVERS BY TEXTILE MANUFACTURERS JUST FOR PRINTING AND DYEING OUR CLOTHES. FASHION IS TO BEAUTIFUL TO HAVE</p>

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	<p>ANYTHING TO DO WITH THIS MESS. WERE HERE TO CHALLENGE IT.</p>
<p>07:39 NARRATOR</p>	<p>DHAKA, THE LARGEST CITY IN BANGLADESH AND ONE OF ITS DIRTIEST.</p> <p>THE TOLL OF BECOMING THE WORLD'S SECOND LEADING CLOTHING EXPORTER, AFTER CHINA, CAN BE SEEN AND SMELLED FROM THE RIVER BANKS SURROUNDING DHAKA.</p> <p>THIS RIVER, THE BURIGANGA, THE LIFELINE FOR THE CITY, IS ONE OF THE MOST POLLUTED RIVERS IN THE WORLD AND THE MANUFACTURERS OF CHEAP CLOTHING CAN CLAIM SOME OF THIS RESPONSIBILITY.</p> <p>THE OUTFLOW FROM BANGLADESH'S GARMENT AND TANNERY INDUSTRIES HAS CONTRIBUTED HEAVILY TO WHAT EXPERTS DESCRIBE AS A WATER POLLUTION CATASTROPHE</p>
<p>08:39 MARK ANGELO</p>	<p>LOOKING AT THE CITY OF WHAT I HAVE SEEN SO FAR, IT'S A SPRAWLING CITY, A HUGE CITY OF 15 MILLION PEOPLE, 6<sup>TH</sup> BIGGEST IN THE WORLD, ALSO I CAN SEE THAT POLLUTION IS AN ISSUE HERE. IT WAS RECENTLY RANKED AS THE SECOND WORST CITY TO LIVE IN FROM A QUALITY OF LIFE AND ENVIRONMENTAL POINT OF VIEW</p>

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	<p>AND CERTAINLY THINGS LIKE TEXTILES AND TANNERIES ARE A PART OF THAT. I DO PLAN ON GETTING INTO THE RIVER IN THE DAYS AHEAD, I DO PLAN ON VISITING THE TANNERIES AND CETAINLY IT'S MY GOAL TO LEARN A LOT MORE ABOUT THESE ISSUES.</p>
<p>09:13 NARRATOR</p>	<p>MARK ANGELO, A CELEBRATED, INTERNATIONAL RIVER CONSERVATIONIST AND MEMBER OF THE EXPLORERS CLUB, IS ON A GLOBAL EXPEDITION, TAKING HIM TO SOME OF THE MOST POLLUTED RIVERS AROUND THE WORLD. HIS GOAL IS TO DOCUMENT THE STATE OF THE WATERWAYS OF OUR PLANET, AND HIS RESEARCH LEADS HIM TO BANGLADESH, WHERE HE IS ABOUT TO DISCOVER THE DARK SIDE OF THE FASHION INDUSTRY.</p>
<p>09:36 MARK ANGELO</p>	<p>I HAVE READ A LOT ABOUT THE BURIGANGA RIVER I KNEW IT'S ONE OF THE MOST POLLUTED RIVERS ON EARTH. THIS IS AN AREA IN PARTICULARLY THIS RIVER ITS A PLACE THAT'S HEAVILY IMPACTED BY THE TEXTILE AND TANNERY SECTORS. SO I THOUGHT IT WAS IMPORTANT TO COME AND SEE IT AND GET A FEEL AS TO HOW IT GOT TO THIS STATE AND WHAT COULD POSSIBLY BE DONE TO TURN THINGS AROUND.</p> <p>AS I STAND HERE, WHEN I CATCH THE WIND IN THE FACE, THE SMELL IS UNBELIEVABLY BAD. IT'S ATROCIOUS. IT'S HARD TO</p>

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	<p>IMAGINE A STREAM MORE POLLUTED THAN THIS ONE. ABOUT A 1/3 OF THE POLLUTION THAT COMES INTO HERE IS SEWAGE, MOST OF THE SEWAGE IN THE CITY IS UNTREATED, BUT ABOUT 2/3 OF THE POLLUTION HERE IS ALL FROM THE TANNERIES, UP RIVER, IT'S ALL INDUSTRIAL POLLUTION, CHEMICALS, HEAVY METALS. SO THIS WATERWAY IS SO POLLUTED IT CANNOT SUSTAIN ANY LIFE, AND THE POLLUTION GETS SO BAD DURING THE DRY SEASON THAT THERE ARE PARTS OF THIS CANAL THAT YOU CAN LITERALLY LIGHT ON FIRE.</p>
<p>10:37 NARRATOR</p>	<p>IN BANGLADESH THERE ARE VERY FEW VOICES WHO SPEAK OUT AGAINST THE GOVERNMENT AND FACTORY OWNERS WHO ARE IGNORING COSTLY ENVIRONMENTAL REGULATIONS, BUT THERE ARE SOME WHO TAKE POLLUTION VERY SERIOUSLY. ONE SUCH MAN IS PINAKI ROY.</p> <p>AS THE DEPUTY CHIEF REPORTER FOR DHAKA'S DAILY STAR, PINAKI'S BEAT IS THE ENVIRONMENT: BUT HIS PASSION IS FOR THE RIVER.</p>
<p>11:00 PINAKI ROY</p>	<p>I HAVE PASSION THEM. I WAS BORN HERE AND GROWN UP HERE. I LOVE RIVERS. THERE ARE PEOPLE WHO LIVE BY THE RIVER, THEY</p>



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	<p>REALLY FEEL SAD ABOUT THE SITUATION, ABOUT THE CONDITION OF THE RIVER NOW, SO THEY SAY, "CAN'T YOU DO SOMETHING SO THAT THE RIVER IS CLEAN AGAIN?"</p>
<p>11:16 NARRATOR</p>	<p>PINAKI INVESTIGATES IN AREAS WHERE TEXTILE COMPANIES GROUP TOGETHER BEHIND HIGH BRICK WALLS. IT'S HERE WHERE HE GATHERS EVIDENCE OF RAMPANT POLLUTION. WHILE COMPANIES MAKE IT DIFFICULT TO SEE WHAT'S GOING ON IN THEIR GUARDED COMPOUNDS, TELL-TALE CHANNELS ALL LEAD TO THE OUTFLOWS THAT RELEASE TOXIC LIQUIDS STRAIGHT INTO THE RIVERS SURROUNDING THE CITY.</p>
<p>11:38 PINAKI ROY</p>	<p>THERE ARE HUNDREDS OF THOUSANDS OF GARMENTS INDUSTRIES IN DHAKA CITY, AND THOSE INDUSTRIES BASICALLY, YOU KNOW, DISCHARGING THEIR POLLUTION, YOU KNOW, EVERYWHERE. SO NOW, EVERY PART OF THE CITY YOU GO TO THE RIVER AND YOU FIND IT POLLUTED. THIS IS ALL THE UNTREATED EFFLUENT COMING FROM THOSE GARMENT AND DYEING INDUSTRIES AND DIRECTLY GOING INTO THE RIVER. THIS WATER IS SO TOXIC, THERE IS NO AQUATIC LIFE, THERE IS NO FISH IN THIS WATER, AND LOCAL COMMUNITIES THEY CANNOT USE THIS WATER ANYMORE. THEY HAVE SET UP INDUSTRIES FOR YEARS BUT THEY HAVE NEVER SET UP ETP, EFFLUENT TREATMENT PLANT. SO IT IS NOT THAT THEY DON'T HAVE MONEY, IT IS ABOUT, ABOUT INTENTION. THEY DON'T HAVE INTENTION ABOUT CLEAN ENVIRONMENT, SO THAT'S WHY THEY</p>

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	<p>DON'T DO IT. THEY SHOULD RESPECT THE RIVER, BUT THEY DON'T.</p> <p>THEY ARE DOING THIS JUST TO INCREASE THEIR PROFIT.</p>
<p>13:00</p> <p>MARK ANGELO</p>	<p>ONE OF MY VERY FIRST DAYS I WALKED DOWN AND I FOUND A BOATMAN AND I ASKED HIM IF HE WOULD TAKE ME OUT ON THE RIVER AND HE WAS HAPPY TO. BUT GETTING OUT ON THE RIVER WAS A REAL EYE OPENER AND IT WAS DEPRESSING. THE COLOUR OF THE WATER WAS INK BLACK. THE WATER ALSO HAD A THICKNESS TO IT AND AS OUR OAR CUT THROUGH THE WATER IT THE WATER LITERALLY ROLLED ALMOST LIKE HEAVY OIL. THE RIVER WAS MORE CHEMICAL THEN WATER. ON MY JOURNEY OVER THE LAST COUPLE OF YEARS I HAVE SEEN SO MANY RIVERS THAT ARE SO SO POLLUTED PROBABLY THE BURIGANGA THOUGH IS THE MOST POLLUTED RIVERS I'VE SEEN. SOME OF THE THINGS I'VE OBSERVED WHILE FLOATING THE RIVER JUST LOOKING AT THE WATER FEELING THE TEXTURE OF IT, THE SMELL OF IT, KNOWING IT'S TOTALLY OFF TOTALLY UNNATURAL, THAT SADDENS ME DEEPLY.</p>
<p>14:00</p> <p>NARRATOR</p>	<p>MUCH OF DHAKA'S POLLUTION PROBLEM EMINATES FROM THIS AREA OF THE CITY: HAZARIBAG.</p> <p>HOME TO MORE THAN 200 TANNERIES...THIS IS GROUND ZERO FOR A LOT OF TOXIC WASTE.</p> <p>RAW MATERIAL ENTERS THROUGH THE DOORS OF THE TANNERIES, TO BE TRANSFORMED INTO WIDE SWATHS OF LEATHER THAT WILL</p>

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	BE SHIPPED OUT OF THE COUNTRY, AND USED IN THE  MANUFACTURING OF SHOES, PURSES, AND OTHER LEATHER GOODS.  WHAT ENDS UP ON THE FASHION RUNWAYS AND IN MANY OF OUR  OWN CLOSETS HAS ITS NOXIOUS BEGINNINGS IN THIS FILTHY  SECTION OF THE CITY.
14:32 SYEDA RIZWANA HASAN	I PROBABLY WON'T HAVE TO GO TO HELL TO FIND OUT HOW IT  LOOKS. IF ONE GOES TO HAZARIBAGH TANNERY THAT WILL TELL  YOU PROBABLY HOW HELL LOOKS LIKE.
14:43 NARRATOR	SYEDA RIZWANNA HASAN IS BANGLADESH'S CHIEF ENVIRONMENTAL  LAWYER.
14:49 SYEDA RIZWANNA HASAN	DHAKA HAS BEEN RANKED AS THE SECOND MOST UNINHABITABLE  CITIES OF THE WORLD AND THIS EXTREMELY HAZARDOUS EXPORT  ORIENTED INDUSTRY IS ACTUALLY CONTRIBUTING TO THAT PROCESS  OF MAKING DHAKA UNINHABITABLE. I WOULD SAY EVEN 15 YEARS  BACK THE RIVER WATER WAS USABLE. YOU COULD STILL BOAT ON  THE RIVER WITHOUT HAVING THAT BAD SMELL. WE SAW A LIVING  RIVER, WHAT IS NOW BEING DESCRIBED AS A BIOLOGICALLY DEAD  RIVER, AND WHAT IS MORE FRUSTRATING FOR US TO SEE IS, DESPITE  ALL THE MOVEMENTS TO SAVE THE RIVER, DESPITE THE COURT  COMING FORWARD TO PROTECT THE RIVER, THE CONDITION OF THE  RIVER IS DETERIORATING WITH EACH PASSING DAY.
15:38	IF YOU VISIT THOSE RIVERS ON ANY DAY, YOU'LL FIND A DIFFERENT

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PINAKI ROY	COLOUR, YOU KNOW, BLUE, RED, BLACK, ALL DIRECTLY GOING INTO A RIVER.
15:38 NARRATOR	PINAKI ROY IS FOLLOWING A LEAD ON A STORY HE'S WORKING ON, TAKING HIM INSIDE ONE OF THE TANNERIES IN THE HAZARIBAGH AREA. NORMALLY CAMERAS ARE NOT ALLOWED IN, BUT BY FOCUSING ON PINAKI "THE REPORTER" WE'RE ABLE TO CAPTURE A SELDOM-SEEN VIEW OF WHAT GOES ON BEHIND THE WALLS OF A TYPICAL TANNERY OPERATION.
16:12 PINAKI ROY	<p>TANNERY WORKERS OR TEXTILE DYE WORKERS WHO HAVE BEEN DEALING WITH THOSE CHEMICALS DIRECTLY, THEY ARE TOUCHING THOSE CHEMICALS IN BARE HANDS WITHOUT ANY GLOVES. A LOT OF UNDERAGE CHILDREN, LIKE BELOW 18 THEY WORK HERE AND MANY OF THEM DO NOT HAVE ANY BOOTS, GLOVES. THEY COMPLAIN A LOT BUT THEY THINK THIS IS THEIR FATE.</p> <p>NOW SEE? NOW THEY HAVE A TEA BREAK, LIKE WORKING BREAK. SO AFTER THE BREAK, THEY ARE HAVING THEIR, YOU KNOW LITTLE SNACKS, IN BARE HANDS WITHOUT PROPER CLEANING. SO IN THIS WAY MAYBE THEY CONSUME A LOT OF CHEMICALS.</p> <p>I HAVE BEEN DOING THIS FOR A FEW YEARS NOW AND TIME-TO-</p>

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	TIME I KEEP ON VISITING AND I FEEL IT'S AWFUL.
17:08 MARK ANGELO	THIS IS THE HEART OF THE TANNING DISTRICT, WIDELY VIEWED AS BEING ONE OF THE MOST POLLUTED PLACES ON EARTH AND THERE ARE CHEMICALS EVERYWHERE. I SMELL CHEMICALS, IT TOTALLY PERVADES THE AIR, I FEEL LIKE I'M BREATHING THEM IN. MY THROAT BURNS, I FEEL IT IN MY EYES, SO THIS IS NOT A HEALTHY PLACE TO BE AND YET THERE ARE 180,000 PEOPLE THAT LIVE AROUND HERE, ALMOST 20,000 WORK HERE IN THE TANNERIES AND GET EXPOSED TO THIS EVERY DAY.
17:38 SYEDA RIZWANA HASAN	IF YOU GO THE HAZARIBAGH TANNERY, IF YOU SEE HOW PEOPLE ARE LIVING THERE, THERE ARE SMALL CHILDREN WHO ARE PASSING THROUGH THE TANNERY AREA EVERY DAY TO GO TO THE SCHOOL AND THEY HAVE LOT THEIR SENSORY ADAPATION, THEY CAN'T SMELL ANYMORE, IT'S TOTALLY GONE.
17:53 PINAKI ROY	THE PHYSICIANS SAY PEOPLE OFTEN COME TO THEM WITH GASTRIC, WITH ULCERS, WITH CHEST PAIN AND OBVIOUSLY WITH SKIN DISEASES AND SOME DISEASES LIKE CANCER SO THEY ARE SUFFERING A LOT.
18:08	LOCAL PEOPLE WON'T COMPLAIN BECAUSE THEY KNOW THAT EVEN IF THEY COMPLAIN THERE IS HARDLY ANY RELIEF. BUT I THINK THE CONSUMERS HAVE A BIG ROLE TO PLAY THERE BECAUSE YOUR

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<p>SYEDA RIZWANNA HASAN</p>	<p>CONSUMPTION PATTERN DOESN'T HAVE TO BE RESPONSIBLE ONLY, YOU HAVE TO MAKE SURE IT'S NOT EXPLOTITIVE.</p>
<p>18:26 NARRATOR</p>	<p>BIG BOX RETAILERS FROM THE WEST LOOK TO BANGLADESH FOR LOW COST/HIGH OUTPUT LEATHER PRODUCTS AND CLOTHING. THE COST IN HUMAN SUFFERING PRODUCING CHEAP CLOTHING HAS BEEN WELL DOCUMENTED. BUT FOR GLOBAL BRANDS THAT BUY CLOTHING FROM BANGLADESHI FACTORIES, POLLUTION RARELY GETS THE SAME ATTENTION AS WORKPLACE CONDITIONS, AND LOCAL ENVIRONMENTALISTS SAY GLOBAL BUYERS HAVE DONE FAR TOO LITTLE.</p>
<p>18:51 PINAKI ROY</p>	<p>ACCIDENT HAPPENED IN THE GARMENT SECTOR LIKE A RANA PLAZA ACCIDENT, WHERE MORE THAN 1000 PEOLPLE DIED. AFTER THAT, I FOUND IN TWITTER, IN SOCIAL MEDIA YOU KNOW, A LOT OF CRITICISM AGAINST THOSE, YOU KNOW, RETAILERS, WHO ARE BUYING FROM BANGLADESH, WHO ARE BUYING FROM THOSE GARMENTS. SO THERE ARE A LOT OF CRITICISMS AND I WOULD SAY, YOU KNOW, THE BUYER FROM THE WEST, HE WANTS CHEAPER CLOTHES. YOU CANNOT YOU KNOW, POLLUTE OUR ENVIRONMENT. BUYING THESE CHEAP CLOTHES, THEY ARE ALSO RESPONSIBLE, BECAUSE THEY ARE PUSHING THESE INDUSTRIES FOR MORE AND MORE CHEAPER CLOTHES. THIS IS A QUESTION OF ETHICS. THEY ARE NOT CARING ABOUT THE ENVIRONMENT THERE ARE SOME WHO JUST WANT TO, YOU KNOW, MAKE THEIR, PRODUCTION COSTS, CHEAP AND CHEAPER.</p> <p>HERE IN BANGLADESH, A COUNTRY THAT'S WIDELY KNOWN FOR PRODUCING LOW COST JEANS, SHIRTS, T-SHIRTS, PEOPLE AROUND THE WORLD BUY THEM, BUT THE REALITY IS, THAT LOW COST</p>

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<p>19:45</p> <p>MARK ANGLEO</p>	<p>CLOTHING HAS A VERY HIGH COST ATTACHED TO IT. LOOK AT WHAT WE'VE SEEN FROM BOTH AN ENVIRONMENTAL AND PUBLIC HEALTH PERSPECTIVE, IT'S A CALAMITY AND THIS KIND OF DISASTER IS SOMETHING THAT I'VE SEEN ON RIVER AFTER RIVER AFTER RIVER. SO ONCE AGAIN I THINK A KEY POINT IS THAT THERE IS OFTEN A VERY HIGH COST ATTACHED TO LOW COST CLOTHING.</p>
<p>20:18</p> <p>SYEDA RIZWANNA HASAN</p>	<p>JUST BECAUSE YOU WANT TO GET SOMETHING AT A LOWER PRICE, DOESN'T MEAN YOU WOULD ALLOW A PRECIOUS RESOURCE LIKE RIVER TO BE DESTROYED, DOESN'T MEAN THAT YOU WOULD ALLOW PEOPLE TO DIE IN SOME OTHER PART OF THE WORLD BECAUSE THEY DON'T HAVE REGULAR HEALTH MONITORING SYSTEM AND YOU WOULD NEVER KNOW THAT BY BUYING SOMETHING AT A LOWER PRICE YOU ARE ACTUALLY CONTRIBUTING TO THE DEATH, ILLNESS, SUFFERING OF PEOPLE IN SOME OTHER PART OF THIS WORLD.</p> <p>IF PEOPLE OF BANGLAESH DO NOT HAVE WATER TOMORROW, THEY'LL HAVE TO FIND ANOTHER PLACE TO GO WHERE THEY'LL HAVE WATER, WHICH MEANS THAT WE'LL HAVE TO MIGRATE OUT, WHICH MEANS THAT THE REST OF THE WORLD WILL ALSO BE DISTURBED IF WE ARE DISTRUBED IN THIS VERY SMALL COUNTRY AND EVERYONE HAS A RESPONSIBILITY TO PROTECT THE MOTHER EARTH. IF I AM AN ENVIRONMENTALIST I CAN'T SAY THAT I CARE ONLY ABOUT THE RIVERS OF BANGLADESH, I HAVE TO CARE ABOUT THE RIVERS OF THE WORLD.</p> <p>THESE ARE CONDITIONS THAT THE WORKERS THERE HAVE TO LIVE WITH EVERY DAY, SO YOU CAN'T HELP BUT WONDER THE TOLL THAT'S TAKING ON THEIR HEALTH. AND I DON'T THINK IT WAS A COINCIDENCE THAT WE DID NOT SEE VERY MANY OLDER PEOPLE</p>

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<p>21:20 MARK ANGELO</p>	<p>WORKING IN THE TANNERIES. I THINK THAT IF YOU HAVE TO WORK WITH THOSE CHEMICALS EVERY DAY, IN THOSE CONDITIONS EVERY DAY, I THINK THAT'S THE RECIPE FOR A MUCH SHORTER LIFE.</p>
<p>23:42 NARRATOR</p>	<p>INDIA, A NATION OF EXTREME CONTRASTS, WITH SOME OF THE MOST SACRED, AND DIRTIEST, RIVERS IN THE WORLD.</p> <p>IT'S DIFFICULT TO IMAGINE TODAY, BUT FOR SOME FARMERS WHO LIVE ON THE BANKS OF THE GANGES, THERE WAS A TIME IN LIVING MEMORY WHEN THE WATER IN THE RIVER WAS CLEAN ENOUGH TO DRINK.</p> <p>TODAY, THE RIVERS THEY REVERE AS GODDESSES ARE IN SEVERE DECLINE.</p>
<p>NARRATOR</p>	<p>SOME OF INDIA'S GREATEST RIVERS BEGIN AS PRISTINE WATER SOURCES, BUT NOT FAR DOWNRIVER, THEY BECOME OPEN FLOWING SEWERS.</p> <p>PERCHED ON THE EDGE OF AN ENVIRONMENTAL</p>



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	<p>CATASTROPHE...ONE OF THE KEY ISSUES IS WHAT TO DO WITH THE EXCREMENT OF ABOUT 600 MILLION PEOPLE WHO ARE DEFECATING IN THE OPEN. STUDIES HAVE FOUND THAT UNTREATED SEWAGE IS THE SINGLE MOST IMPORTANT SOURCE OF WATER POLLUTION IN INDIA.</p> <p>WHILE MORE THAN HALF A BILLION PEOPLE RELY ON ONE OF IT'S MOST HOLY RIVERS – THE GANGES – THEY ALSO CONTRIBUTE TO IT'S ABUSE IN THE MOST ELEMENTAL WAY.</p>
<p>25:32 MARK ANGELO</p>	<p>VARANASSI IS AN AMAZING CITY. IT'S KNOWN AS THE ETERNAL CITY, IT EMBODIES THE ESSENCE OF HINDUISM AND BECAUSE OF ITS CLOSE PROXIMITY TO THE GANGES IT'S A VERY WELL KNOWN PILGRIMAGE SITE. MORE THAN A MILLION PILGRIMS COME HERE EVERY YEAR. SOME COME TO TAKE A HOLY DIP IN THIS LOCATION TO CLEANSE THEIR SOUL, CLEANSE THEM OF THEIR SINS...OTHERS COME TO SPEND THEIR FINAL DAYS HERE. THEY'LL DIE HERE AND HAVE THEIR ASHES SCATTERED IN THE RIVER IN THE BELIEF THAT THAT WILL AID IN THEIR PATH TOWARDS HEAVEN. IT WILL LIBERATE THE SOUL AND FREE THEM FROM THAT NEVER ENDING CYCLE OF REINCARNATION. THIS CITY HAS AN INCREDIBLE SPIRITUAL ENERGY AND NO WEHRE ELSE ON EARTH DOES LIFE, DEATH AND RELIGION</p>

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<p>26:51</p> <p>SUNITA NARAIN</p>	<p>BLEND SO SEEMLESSLY.</p> <p>I'VE ALWAYS LOVED INDIA, I'VE BEEN HERE MANY, MANY TIMES, BUT I'VE ALWAYS BEEN DISAPPOINTED IN THE STATE OF THE GANGES RIVER. IT'S A RIVER THAT I HAVE COME TO KNOW REALLY WELL, I'VE BEEN TO THE HEADWATERS, I'VE BEEN TO THE MOUTH, I'VE PADDLED OR TRAVELLED ALONG MUCH OF THE REST OF IT. IT'S NOT THE BIGGEST RIVER IN THE WORLD, IT'S NOT THE LONGEST, BUT IT MAY BE THE MOST VENERATED, PARTICULARLY BY THE 500 MILLION PEOPLE THAT LIVE WITHIN IT'S BASIN.</p> <p>I THINK IT'S WHEN FAITH, WHICH IS VERY POWERFUL, BECOMES YOUR WEAKNESS. I MEAN THERE IS NO DOUBT THAT THE GANGA HAS TREMENDOUS SELF CLEANING CAPACITIES. IT'S BEEN RECORDED, IT'S BEEN UNDERSTOOD. IT'S WHY THERE SUCH A SENSE OF THE FACT THAT THIS IS A RIVER, WHICH CAN REGENERATE ITSELF. BUT I THINK TODAY IT IS ALSO SOMETHING THAT WE HAVE TO ACCEPT THAT THAT RIVER IS POLLUTED. WE HAVE DEFILED IT BEYOND IT'S CLEANSING ABLITIES AND THAT WE HAVE TO CLEAN IT UP AND IT'S CRYING THAT IT NEEDS CLEANING UP.</p>
<p>27:29</p> <p>NARRATOR</p>	<p>RELIGION AND SCIENCE ARE UNCOMFORTABLE BEDMATES IN INDIA.</p> <p>TO LIVE BY THE GANGES AND SEE OBVIOUS POLLUTION DOESN'T</p>

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	<p>SWAY THOSE WHO BELIEVE IN THE RIVER'S ABILITY TO CLEANSE ITSELF.</p> <p>RELIGIOUS MEN, WHO HOLD GREAT INFLUENCE WITH INDIA'S POPULATION, BELIEVE IN THE RIVER'S PURITY, AND SING IT'S PRAISES, WHILE ENVIRONMENTALISTS HOPE THEIR INFLUENCE, WOULD BE USED TO CONVINCING MORE PEOPLE TO CLEAN UP THE RIVER.</p>
28:08 SUNITA NARAIN	<p>I THINK IT'S THE PEOPLE WHO HOLD THE FAITH THAT MUST TALK TO PEOPLE AND MAKE THEM UNDERSTAND THAT YES, THE RIVER HAS INTRINSIC, SELF-CLEANING ABILITIES, AND WE HAVE FAITH THAT THE RIVER IS THE MOST IMPORTANT BEING, BUT YET, WE AS A MODERN SOCIETY HAVE EVEN BREACHED ITS OWN ABILITIES TO CLEAN ITSELF AND WE HAVE TO DO SOMETHING ABOUT IT. AND YOU HAVE TO BE ABLE TO BRING SCIENCE INTO RELIGION. THE FACT IS IF YOU HAVE DISSOLVED OXYGEN LEVELS OF ZERO THE RIVER IS DEAD, CALL IT WHAT YOU WANT, YOU JUST HAVEN'T OFFICIALLY CREMATED IT, BUT IT'S DEAD.</p>
28:54 NARRATOR	<p>ALLAHABAD. NO WHERE IN THE WORLD IS FAITH EXHIBITED MORE THAN IN THIS CITY. HERE AT THE CONFLUENCE OF THE YAMUNA AND GANGES RIVERS, 110 MILLION PEOPLE, GATHER TO CELEBRATE THE KUMBH MELA.</p>
29:09 SUNITA NARAIN	<p>WE ARE A COUNTRY, WHICH HOLDS RIVERS SACRED, AND YET WE ARE COMMITTING HYROCIDIE. WE ARE DELIBERATELY MURDERING</p>

## Voice / Narration

## AUDIO

	<p>OUR RIVERS.</p> <p>THE STRENGTH OF OUR RELIGION IS THAT WE WORSHIP NATURE AND IF YOU WORSHIP NATURE THEN THE LAST THING THAT YOU CAN DO IS IT DEFY IT OR DEGRADE IT.</p>
<p>29:49 AVIKAL SOMVANSHI</p>	<p>WE ARE GOING FOR KUMBH MELA, IT'S HAPPENING TODAY AND IT'S MASSIVE. LIKE LAST KUMBH MELA IN 2001 SAW A CROWD OF ALMOST 70 MILLION PEOPLE TURN UP DURING THE FESTIVAL. EACH OF THE BATHING DAYS WHICH HAVE PAST, THE CROWD HAS BEEN 15% TO 25% MORE THAN WHAT THEY HAD ESTIMATED. SO WE WILL, MOST PROBABLY WE ARE GOING TO HAVE 20 MILLION TO 25 MILLION TODAY.</p>
<p>30:23 SUNITA NARAIN</p>	<p>I DON'T THINK THERE IS ANY CONGREGATION OF THIS SIZE AND SCALE THAT ANYWHERE IN THE WORLD OKAY. I THINK IT'S IMPORTANT TO UNDERSTAND THAT THEY COME BECAUSE THEY WORKSHIP THE RIVER, THEY CELEBRATE THE RIVER.</p>
<p>30:37 AVIKAL SOMVANSHI</p>	<p>GROWING UP KUMBH WAS SOMETHING SPECTACULAR, SOMETHING WHICH MY CITY IS KNOWN FOR. IT'S THE BIGGEST GATHERING OF HUMAN BEINGS ON EARTH. AS I HAVE AGED NOW AND, I HAVE REALIZED THAT EXCITEMENT, WAS ACTUALLY A KIND OF FEAR.</p>

## Voice / Narration

## AUDIO

	<p>WHICH I HARBOUR CAUSE, THE THINGS I HAD TO LIVE WITH, BEFORE THE KUMBH STARTED AND AFTER THE KUMBH FINISHED, IS SOMETHING WHICH IS NOTHING TO BE PROUD OF.</p> <p>THE WHOLE BUZZ AROUND KUMBH IS AROUND THE SMALL AREA, WHICH IS CALLED SANGAM, WHERE THE GANGES AND THE YAMUNA MEET. SO IT'S THAT AREA WHERE ALL THE ACTIVITES ARE SURROUNDED.</p>
<p>31:36 SUNITA NARAIN</p>	<p>IT'S TIME IN INDIA THAT WE DID SOME VERY SERIOUS STOCK TAKING ABOUT WHAT'S GOING WRONG AND WHY ARE WE A GENERATION OF INDIANS BECOMING A GENERATION WHICH IS LOSING TO MY MIND, IT'S MOST SACRED ASSET... A RIVER.</p>
<p>32:00 MARK ANGELO</p>	<p>THE KUMBH MELA IS THIS SPECTACLE, THIS GREAT CELEBRATION OF THE GANGES RIVER AND THE FACT THAT ALL THE HUMAN WASTE FROM THE 100 MILLION VISITORS THERE AT PRESENT IS ALLOWED TO SEEP INTO THE SOIL OR FLOW DIRECTLY INTO THE RIVER, I THINK THAT'S WRONG.</p> <p>I LOVE THIS COUNTRY, I LOVE THE CULTURE, I LOVE THE CUSTOMS, THE COLOURS, EVEN THE CHAOS, BUT I'VE ALWAYS BEEN SADDENED ABOUT THE STATE OF THE GANGES RIVER. PARTICULARILY KNOWING</p>

## Voice / Narration

## AUDIO

	<p>THAT IT IS REVERED SO MUCH AND IT IS WORSHIPPED AS A GODDESS AND IT SEEMS LIKE A BIT OF A DISCONNECT THAT IT CAN BE WORSHIPPED ON ONE HAND, AND WE CAN ALLOW HER TO GET SO POLLUTED ON THE OTHER.</p>
<p>32:42 AVIKAL SOMVANSHI</p>	<p>FOR THEM THE RIVER IS STILL A GODDESS AND STILL HOLY NO MATTER WHAT IS FLOWING IN THE RIVER. YOU TELL THEM THE WATER IS GETTING POLLUTED THEY'LL SAY YES THE WATER IS GETTING POLLUTED, ITS VERY DIRTY, THE WATER IS SO BAD, BUT RISKING YOUR OWN SALVATION, BY AVOIDING TO DO THE RITUAL, IS SOMETHING THEY CANNOT FATHOM WITH.</p>
<p>33:08 SUNITA NARAIN</p>	<p>KUMBH IS A TOUGH ONE BUT I MEAN I TAKE BACK FROM IT, I MEAN I'M A HINDU, NOT THE ONE WHO WOULD GO TO THE RIVER FOR RITUALS MORE FOR THE BEAUTY OF IT. BUT I TAKE BACK WITH IT ENORMOUS AWH AND THE RIVER MEANS SO MUCH TO SO MANY PEOPLE IN MY COUNTRY AND I THINK THAT IS WHAT IS BEAUTIFUL.</p>
<p>33:35 NARRATOR</p>	<p>ON A DAY LIKE THIS – WHEN THREE TIMES THE POPULATION OF NEW YORK CITY GATHERS ON THE RIVER'S BANKS, THE GOVERNMENT HAS ORDERED CITIES UP STREAM TO STOP POLLUTING THE GANGES, SO THAT THE FAITHFUL WILL HAVE A</p>

## Voice / Narration

## AUDIO

	<p>CLEAN RIVER TO BATHE IN.</p> <p>KANPUR, A CITY OF 4 MILLION IS AMONG THE WORLD'S TOP 10 CITIES WITH THE WORST AIR POLLUTION, AND IS THE SECOND MOST POLLUTED CITIES IN INDIA.</p> <p>IT'S THE LEATHER CAPITAL OF THE REGION AND THE TANNERIES HAVE BEEN ORDERED TO SHUT DOWN DURING THE KUMBH MELA...AND FOR THE MOST PART....THEY HAVE.</p>
34:14 RAKESH JAISWAL	<p>TODAY BEING ONE OF THE MAIN BATHING DAYS, THIS DRAIN SEEMS TO BE CLOSED, BUT AFTER THE MAIN BATHING DAYS, IT WILL BE AS USUAL. YOU CAN SEE THE BLACK VISCOUS CHECMICALIZED WATER GOING TO THE RIVER.</p>
34:38 NARRATOR	<p>THE TANNERY DISTRICT, ESTABLISHED ALONG THE GANGES RIVER DURING THE BRITISH COLONIAL RULE, IS KANPUR'S ECONOMIC MAINSTAY AND A MAJOR SOURCE OF POLLUTION.</p>
34:49 RAKESH JAISWAL	<p>KANPUR HOSTS 400 HUNDRED ODD LEATHER FACTORIES AND TANNERIES AND THESE TANNERIES USE DYES, ACIDS, BASIC CHROME SULAFATE, OTHER HEAVY-METAL CONTAINING CHEMICALS, AND THE WASTE WATER THEY GENERATE IS A COCKTAIL OF THESE CHEMICALS WHICH ARE LETHAL TO HUMAN HEALTH AND OTHER LIFE ALSO.</p>
35:14	<p>ZAFAR LARI OWNS A MID-SIZED TANNERY IN KANPUR AND WHILE</p>

## Voice / Narration

## AUDIO

NARRATOR	HE UNDERSTANDS THAT THE TANNERY DISTRICT MAY BE SUFFERING FROM A POOR REPUTATION AMONG ENVIRONMENTAL GROUPS, HE ALSO BELIEVES THAT IT'S A PERCEPTION NOT DESERVED. AND HE DENIES THAT ANY OF HIS TANNERY WASTE WATER RUNS INTO THE GANGES.
35:32 ZAFAR LARI	I THINK THEY HAVE SOME MISCONCEPTIONS, MISUNDERSTANDING, BECAUSE IF YOU ARE STANDING HERE IN MY TANNERY, IT IS ABOUT MORE THAN 3 KILOMETRES FAR FROM HERE, IT IS IMPOSSIBLE TO SEND A DROP OF WATER DIRECTLY TO THE GANGES.
35:48 RAKESH JAISWAL	THIS IS A MIXTURE OF TANNERY WASTE WATER. IT CONTAINS A VARIETY OF CHEMICALS, THE SAME CHEMICALS WHICH ARE USED BY LEATHER FACTORIES AND TANNERIES.
36:00 ZAFAR LARI	I BELIEVE THE WATER COMES FROM THE TANNERY AREA IS NOT FROM THE EFFLUENT FROM THE INDUSTRY, IT COULD BE, I HOPE IT COULD BE DOMESTIC WASTE. IT IS QUITE IMPOSSIBLE THE WATER SHOULD DIRECTLY GO ANYTHING FROM THE GANGES. IT IS IMPOSSIBLE. FIRST WE HAVE A DRAIN SYSTEM, THEN WE HAVE A CHANNEL SYSTEM, THEN WE HAVE MUNICIPAL WATER DISCHARGE SYSTEM...IT IS QUITE IMPOSSIBLE. EXACTLY IT IS IMPOSSIBLE WE CAN SAY THAT.
26:35 NARRATOR	AT THE EDGE OF THE TANNERY DISTRICT SITS A HOLDING AREA CONTAINING STREAMS AND PONDS FILLED WITH NOXIOUS LIQUIDS.



## Voice / Narration

## AUDIO

	<p>FROM THIS AREA, LARGE PIPES LEAD OUT AND RUN FOR MANY KILOMETRES, TOWARDS THE GANGES RIVER.</p>
<p>36:49 RAKESH JAISWAL</p>	<p>THIS WATER IS BEING PUT INTO THIS IRRIGATION CANAL. IT IRRIGATES AROUND 2,500 HECTARES OF LAND AND YOU CAN SEE THAT THIS WATER IS NOT PROPERLY TREATED AND IS NOT SAFE FOR IRRIGATION.</p> <p>IN EVERY FAMILY YOU WILL FIND SOMEONE AFFLICTED WITH SOME KIND OF A SKIN PROBLEM, RANGING FROM RASHES, BOILS, NUMBNESS IN THE LIMBS. IT ALSO CONTAINS KNOWN CARCINOGEN CHROMIUM, SO MAYBE PEOPLE HAVE CANCERS.</p> <p>CHROMIUM HAS BEEN REPORTED IN CATTLE MILK AND ALSO AGRICULTURAL PRODUCE SO THIS HEAVY METAL HAS ENTERED THE FOOD CHAIN AND IS FINALLY REACHING US AND AFFECTING THE HEALTH OF THE PEOPLE.</p>
<p>38:03 NARRATOR</p>	<p>THIS STRETCH OF THE RIVER IS EXTREMELY CONTAMINATED BUT LIFE IN THE VILLAGES SITTING ON ITS BANKS GOES ON AS USUAL.</p> <p>WHILE FILMING THERE, WE OBSERVED A MAN POLING HIS BOAT TO SHORE. HIS SMALL CRAFT WAS FILLED WITH A COUPLE HUNDRED FISH. HE TOLD US HE HAD FOUND HIS CATCH JUST FLOATING ON TOP OF THE RIVER. NEWSPAPERS REPORTED THAT THE DEAD FISH</p>

## Voice / Narration

## AUDIO

	WERE THE RESULT OF A CHEMICAL SPILL INTO THE RIVER EARLIER THAT DAY. THE MAN WAS CLEANING THE FISH TO FEED HIS FAMILY AND TOOK THE REST OF HIS CATCH TO SELL AT THE LOCAL MARKET THAT AFTERNOON.
38:39 MARK ANGELO	WHEN A RIVER HAD BEEN SO POLLUTED OR SO ABUSED FOR MANY, MANY YEARS YOU CAN'T TURN IT AROUND OVER NIGHT. I LOOK AT A COUNTRY LIKE INDIA, I LOOK AT THIS RIVER WE ARE ON NOW, AND IT'S GOING TO BE A HUGE CHALLENGE TO TURN THIS AROUND. THERE ARE HUGE ISSUES PERTAINING TO SEWAGE AND INDUSTRIAL POLLUTION.  AND ON A RIVER LIKE THE GANGES, I THINK THE YOUNG GENERATION THAT'S COMING ALONG, I BELIEVE IN THE YEARS AHEAD THEY WILL HAVE THE SAME REVEREANCE FOR THIS RIVER THAT THEIR PARENTS HAD, BUT AS PART OF THAT I ALSO THINK THEY'LL SEE AN OBLIGATION TO HAVE A CLEANER GANGES.
39:49 NARRATOR	THE ZAMBEZI, A TRUE-LIFE GIVING RIVER, WORTHY OF ITS REPUTATION OF BEING ONE OF THE GREAT RIVERS OF THE WORLD. MARK ANGELO HAS MADE THE TRIP HERE BEFORE ... A FAR DIFFERENT RIVER THAN THE GANGES ... AND A PLACE HE FINDS REJEUVENATES HIS SOUL. A NICE REMINDER OF WHAT HE WORKS TOWARDS FOR ALL RIVERS.
40:10 MARK ANGELO	THE THING I LOVE ABOUT THE ZAMBEZI IS THE DIVERSITY. AND THE WILDLIFE IS INCREDIBLY PROLIFIC ANIMALS GATHER IN HUGE

## Voice / Narration

## AUDIO

	<p>NUMBERS BESIDE THE RIVER AND OFTEN RIGHT IN THE RIVER AND TO SEE ALL OF THAT FROM A CANOE, UP CLOSE, VIRTUALLY AT WATER LEVEL, IS AN UNFORGETTABLE EXPERIENCE. SO IN MANY I LOOK, PARTICULARLY AT THIS PART OF THE ZAMBEZI, AS AN EXAMPLE OF WHAT A RIVER CAN AND SHOULD BE.</p>
<p>40:37 NARRATOR</p>	<p>MARK ANGELO IS AN INTERNATIONALLY CELEBRATED RIVER CONSERVATIONIST AND THE FOUNDER OF WORLD RIVERS DAY, AND EVENT HELD TO CLEAN RIVERS IN MORE THAN 60 COUNTRIES AROUND THE WORLD.</p> <p>THE UNITED NATIONS HAS RECOGNIZED HIS WORK PROTECTING WHAT MARK CALLS, "THE VITAL ARTERIES OF THIS PLANET."</p> <p>MARK OFTEN MENTIONS THAT RIVERS RUN THROUGH HIS SOUL, IN A JOURNEY THAT BEGAN AS A YOUNG BOY GROWING UP IN LOS ANGELES.</p>
<p>41:03 MARK ANGELO</p>	<p>I GREW UP WITH AN INTERESTING BACKGROUND. MY PARENTS WERE VERY MUCH INVOLVED IN OLD HOLLYWOOD, THE MOVIE INDUSTRY AND IT WAS A, YOU KNOW, HOLLYWOOD WAS A FASCINATING PLACE TO GROW UP IN THE 50'S, BUT MY INTEREST TOOK ME ELSEWHERE. YOU KNOW I HAPPENED TO LIVE BY THE LOS ANGELES RIVER, A RIVER THAT HAD BEEN DESTROYED IN MANY WAYS, TOTALLY ENCASED IN A BIG CONCRETE CULVERT AND I USED</p>

Voice / Narration

AUDIO

<p>MARK ANGELO</p>	<p>TO HANG OUT THERE A LOT. BUT I DIDN'T HAVE TO BE VERY OLD TO REALIZE THAT'S NOT THE WAY A RIVER IS MEANT TO BE. ON THE SIDE OF THE COIN THOUGH WE LIVED RIGHT NEXT DOOR TO A PLACE CALLED GRIFFITH PARK, A 4000 ACRE URBAN OASIS, A WILD OASIS IN THE MIDDLE OF THE CITY AND I COLD GO OUT MY DOOR AND CROSS THE STREE AND GO UP IN THE HILLS AND JUST HIKE FOR HOURS AND I GOT TO KNOW A LOT OF THE SMALL CREEKS AND STREAMS THERE SO THAT BY THE TIME I WAS 15 OR 16 I WAS REALLY INTO THE OUTDOORS. THEN I WENT AT THE AGE OF 17 TO THE UNIVERISTY OF MONTANA AND I GOT INTO FLY FISHING AND PADDLING IN A VERY BIG WAY AND THAT CEMENTED THINGS FOR ME AND AT THAT STAGE I KNEW THAT I WANTED TO SPEND THE REST OF MY LIFE WORKING IN A FIELD RELATED TO RIVER CONSERVATION.</p> <p>AS I GOT OLDER I STARTED TO LOOK AT RIVERS IN A MUCH BROADER WAY FOR THE MANY VALUES THEY POSSES AND NOW I LOOK AT THEM AS LITERALLY LIFELINES IN THE BROADEST SENSE. AND AT THIS STAGE OF MY LIFE WHENEVER I'M ON A RIVER IT DOES MUCH TO REJUNVINATE MY SPIRIT AND MY SOUL AND THE WORLD SEEMS A SANER PLACE.</p>
<p>43:02</p>	<p>JAKARTA, A CITY OF 28 MILLION, THE CAPITAL OF INDONESIA,</p>

## Voice / Narration

## AUDIO

NARRATOR	<p>COSMOPOLITAN, WITH WIDE AVENUES AND TOP OF THE LINE SHOPPING, JAKARTA IS ALSO AT THE HEADWATERS OF ONE OF THE MOST POLLUTED RIVERS IN THE WORLD – THE CITARUM.</p> <p>THIS RIVER OF GARBAGE IS A SHAMEFUL EXAMPLE OF MANKINDS INHUMANITY TO THE ENVIRONMENT AND THE CRIME LARGELY GOES UNPUNISHED BY LAW.</p> <p>THE CITARUM WAS ONCE A GENTLE FLOWING RIVER, WHERE FISHERMEN CAST THEIR NETS, PULLING IN A BOUNTY OF HEALTHY FISH THAT FED THEIR FAMILIES.</p>
NARRATOR	<p>TODAY, IT'S A RIVER IN CRISIS, CHOKED BY THE DOMESTIC WASTE OF 9 MILLION PEOPLE, AND THICK WITH THE CASTOFFS FROM HUNDREDS OF FACTORIES ALONG ITS BANKS.</p> <p>IT'S HARD TO IMAGINE THAT 80 PER CENT OF THE POPULATION OF JAKARTA RELIES ON THIS RIVER FOR THEIR DRINKING WATER...</p> <p>THIS RIVER BUBBLES LIKE A WITCHES CAULDRON, BECAUSE OF THE POLLUTION THAT HAS SUNK TO THE BOTTOM AND IS OFF GASING.</p> <p>MORE THAN 500 FACTORIES MOST OF THEM PRODUCING TEXTILES WHICH REQUIRE CHEMICAL TREATMENT, LINE THE BANKS OF THIS</p>

## Voice / Narration

## AUDIO

	200 – MILE RIVER, SPEWING WASTE INTO THE WATER.
44:16 HILDA MEUTIA	EVERBODY HAS THE RIGHT TO KNOW WHAT IS BEING DISCHARGED BY A FACTORY, HOW MANY IS BEING DISCHARGED, PER DAY, PER YEAR, PER MONTH. THIS INFORMATION IS IMPORTANT SO WE KNOW WHAT IS IN OUR WATER AND WE CAN CONTROL IT.
44:31 NARRATOR	IN INDONESIA, RESEARCHERS ALLEDGE THE TEXTILE INDUSTRY IS A MAJOR CONTRIBUTOR TO THE POOR HEALTH OF THE CITARUM RIVER.
44:38 HILDA MEUTIA	IN CITARUM IT IS WELL KNOWN THAT THERE ARE A LOT OF WHAT WE CALL ANONOMOUS PIPE SO THIS KIND OF PIPE APPEARS IN THE MIDDLE OF NOWHERE LIKE THIS SO THE PIPE IS UNDERGROUND YOU CAN NOT REALLY SEE THIS FACTORY THAT IS DUMPING THIS AND ALSO IT IS SHARED PIPE MAKING IT EVEN MORE DIFFICULT TO KNOW WHO IS THE PERPATRATORS.
45:01 NARRATOR  NARRATOR	WHILE THE SOURCE OF THIS PARTICULAR PIPE IS CLOAKED IN MYSTERY, THESE RESEARCHERS HAVE HAD SUCCESS IN UNCOVERING WHAT THEY CALL "A CRIMINAL CASE OF WATER POLLUTION." THESE THREE WERE PART OF A LARGER GROUP WHO SPENT TWO YEARS FOLLOWING A TRAIL OF POLLUTION ON THE CITARUM RIVER. ENVIRONMENTAL ACTIVISTS COLLECTED SAMPLES OF WASTE WATER DISCHARGED FROM THE PT GISTEX FACTORY IN BANDUNG, AN AREA KNOWN FOR ITS TEXTILE MANUFACTURING.







Voice / Narration

AUDIO

<p>NARRATOR</p>	<p>IN THE WORLD – BUT ALSO, SOME OF THE MOST TOXIC.</p>
<p>48:14</p>	<p>MAJOR RIVER SYSTEMS ARE OFTEN IN PRETTY GOOD SHAPE AT THE</p>
<p>MARK ANGELO</p>	<p>VERY TOP END BUT AS THEY MOVE DOWNRIVER THEY DEGRADE, THEY PICK UP AN INCREASING NUMBER OF POLLUTANTS AND CONTAMINANTS, AND THAT'S VERY MUCH THE CASE WITH THE LI RIVER HERE IN GUILINE. IN ITS VERY UPPER REACHES IT'S ONE OF THE CLEANER WATERWAYS IN CHINA BUT AS IT MOVES ALONG IT EVENTUALLY MERGES WITH THE PEARL IT THEN BECOMES ONE OF THE MOST POLLUTED.</p> <p>ACCESS TO SAFE CLEAN WATER I THINK IS A FUNDAMENTAL HUMAN NEED AND A BASIC HUMAN RIGHT AND YET HERE IN CHINA TWO THIRDS OF ITS RURAL POPULATION ALMOST 500 MILLION PEOPLE HAVE TO USE WATER THAT'S BEEN CONTAMINATED BY HUMAN OR INDUSTRIAL WASTE. SO GASTROINTESTINAL CANCER IS THE NUMBER ONE KILLER HERE IN THE COUNTRYSIDE.</p>
<p>MARK ANGELO</p>	<p>THE DARKSIDE OF CHINA'S ECONOMIC MIRACLE HAS BEEN BOTH A HEALTH CRISIS AND AN ENVIRONMENTAL CRISIS DUE TO A SHORTAGE OF THE ONE RESOURCE THAT NO ONE CAN LIVE WITHOUT AND THAT'S CLEAN WATER.</p>

## Voice / Narration

## AUDIO

<p>49:18</p> <p>STEWART BUNN</p>	<p>THERE ARE RIVERS THERE WHERE THE CHEMICAL OXYGEN DEMAND TAKES OUT ALL THE OXYGEN SO YOU KNOW THESE ARE RIVER SYSTEMS THAT HAVE NO DISSOLVED OXYGEN, THERE ARE LEVELS OF METAL CONTAMINATION AND OTHER INDUSTRIAL EFFLUENT THAT MAKE IT IMPOSSIBLE FOR ANY LIVING CREATURE, SO THERE ARE CERTAINLY PLACES WHERE ALL OF THE NATURAL FEATURES ARE GONE AND THE WATER IS VIRTUALLY USELESS FOR ALL APPLICATIONS.</p>
<p>49:44</p> <p>NARRATOR</p>	<p>HOW DID CHINA'S RIVERS GET THIS BAD? IT'S A QUESTION ENVIRONMENTAL CAMPAIGNERS IN CHINA HAVE ASKED THEIR GOVERNMENT FOR MANY YEARS.</p>
<p>49:53</p> <p>MA JUN</p>	<p>WE NEED TO MAKE THEM STRENGTHEN THE ENFORCEMENT, WE NEED TO HAVE OUR COURT OPEN TO PUBLIC ENVIRONMENTAL LAWSUITS. BUT THOSE ARE DEEP ROOTED ISSUES WHICH CAN NOT BE OVERCOME YOU KNOW EASILY. SO WE DECIDED THE PUBLIC MUST PARTICPATE WE NEED TO HAVE A EXTENSIVE PUBLIC PARTICIPATION TO HELP ADDRESS THIS ISSUE.</p>
<p>50:14</p> <p>NARRATOR</p>	<p>ENVIRONMENTAL ACTIVISTS HAVE SPENT YEARS INVESTIGATING THE ROOT CAUSES FOR CHINA'S RIVER POLLUTION – BUT BEING IN A</p>

## Voice / Narration

## AUDIO

	COMMUNIST STATE, THEY HAVE HAD TO TREAD LIGHTLY.
50:25 TIANJE MA	WHEN WE DO INVESTIGATIONS WE TEND TO BE MORE CAREFUL BECAUSE OUR AIM IS TO GET THE PROBLEM EXPOSED. BUT IF YOU ALERT THESE POLLUTERS OR MAKE THEM AWARE YOU THAT YOU ARE INVESTIGATING THEY MIGHT TAKE SOME ACTION TO STOP YOU.
50:40 NARRATOR	TIANJIE MA AND TEAMS OF TOXIC CAMPAIGNERS THROUGHOUT CHINA HAVE BEEN AT THE FOREFRONT OF A LONG INVESTIGATION INTO THE SOURCES OF CHEMICAL SUBSTANCES FINDING THEIR WAY INTO CHINA'S RIVERS.
	THEY'VE DISCOVERED THE TEXTILE INDUSTRY IS A MAJOR CONTRIBUTOR TO CHINA'S RIVER CONTAMINATION.
50:59 TIANJIE MA	YOU CAN FIND A LOT OF CARCINAGINS IN IT A LOT OF THE CARCINAGINS RELATED TO DYE BECAUSE THE INDUSTRY USE A LOT OF DYES AND ALSO YOU FIND CHEMICALS THAT MAY DISRUPT THE HORMONE SYSTEM WE FOUND CHEMICALS THAT ARE REALLY NASTY THAT CAN CHANGE THE SEX OF A FISH FOR EXAMPLE AND THESE KIND OF CHEMICALS ARE STILL HEAVILY USED IN CHINA EVEN IF SOME OF THEM HAVE ALREADY BEEN BANNED IN EUROPE OR IN NORTH AMERICA, WE ALSO FIND CHEMICALS THAT ARE PERSISTENT

Voice / Narration

AUDIO

	<p>WHICH MEANS WHEN THEY GET RELEASED INTO THE ENVIRONMENT THEY DON'T BREAKDOWN AND THEY TRAVEL AROUND THE WORLD SO ONE TOXIC CHEMICAL BEING RELEASED BY A CHINESE TEXTILE FACTORY MAY TRAVEL A HALF OF A GLOBE AND ENDED UP IN THE CANADIAN ARTIC WHERE YOU CAN FIND IN THE BODY OF A POLAR BEAR.</p> <p>SO THESE ARE THE REALLY NASTY TOXIC CHEMICALS WE ARE TALKING ABOUT.</p>
<p>51:54 MA JUN</p>	<p>THE TEXTILE INDUSTRY IS ONE OF THE MAJOR SOURCES OF WATER POLLUTION IN CHINA EVERY YEAR IT DISCHARGE ABOUT 2.5 BILLION TONS OF WASTEWATER AND MUCH OF THAT NOT PROPERLY TREATED. I DON'T THINK THE CONSUMERS WHEN THEY ENJOY ALLTHIS PRODUCT THEY WOULD KNOW ABOUT THIS SO WHAT WE NEED TO DO IS TO TRY TO GO UNDERGROUND WITH OUR PARTNERS THROUGH THIS UNDERGROUND RESEARCH TO REALLY BRING OUT THE FACT OF THE POLLUTION AND ALL OF ITS IMPACT.</p>
<p>52:24 NARRATOR</p>	<p>INVESTIGATIONS PROVED THAT TOXIC CHEMICALS WERE BEING DUMPED INTO CHINA'S RIVERS, ESPECIALLY BY THE TEXTILE COMPANIES. THE NEXT STEP WAS TO CONNECT THE DOTS AND IDENTIFY THE COMPANIES RESPONSIBLE FOR THE POLLUTION.</p>



## Voice / Narration

## AUDIO

KUMI NAIDOO	FOUND THAT OUR RIVERS ACROSS THE WORLD WERE BEING DEEPLY IMPACTED BY THE DUMPING OF POSINOUS TOXIC MATERIAL IN OUR RIVERS DONE WITH ABSOLUTELY NO REGULATION NO OVERSITE AND SADLY MANY OF THE PRODUCTS THAT WERE BEING PRODUCED THROUGH THIS DIRTY POLLUTING WAY OF PRODUCING FASHION WAS ACTUALLY THE DIRECT CONTRIBUTOR TO MASSIVE AMOUNTS OF RIVER CONTAMINATION.
54:29 ORSOLA DE CASTRO	THERE IS A JOKE IN CHINA THEY SAY THAT YOU CAN PREDICT THE "IT" COLOUR FOR THE SEASON BY LOOKING AT THE COLOUR OF THE RIVER YOU KNOW SO IF THEY HAVE DYED MORE YELLOW THAN THAT'S WHAT THE RIVER WILL LOOK LIKE. THERE IS REALLY NO WAY OUT OF IT AND IT IS DEPRESSING TALKING ABOUT IT. IT DOES MAKE YOU FEEL VERY POWERLESS TO A CERTAIN EXTENT. IT IS PARTICULARLY SCANDALOUS HOW LONG ITS BE ALLOWED TO GO ON AND HOW LITTLE HAS BEEN DONE TO HIGHLIGHT THIS PROBLEM FOR FUTURE GENERATIONS WHO ARE ULTIMATELY THE ONES THAT WILL HAVE TO FOOT THE BILL AND REALLY SUFFER THE CONSEQUENSES. A LOT OF COMPANIES DO THINGS THAT ARE VERY, VERY HIDDEN AND VERY SECRET. I USED TO THINK I WONDER WHY I KNOW WHY NOW BECAUSE THE DAMAGE IS SO HUGE THE DAMAGE THEY HAVE DONE IS SO HUGE BUT WE WILL BE DEMANDING TO KNOW WHO MAKES OUR CLOTHES WHERE DO THEY COME FROM WHAT ARE THEY MADE OUT OF INCREASELY AND THE INDUSTRY

Voice / Narration

AUDIO

	<p>WILL HAVE TO ACCOMMODATE THOSE DEMANDS</p>
<p>55:33 NARRATOR</p>	<p>TAKEN AS A WHOLE, THE TEXTILE INDUSTRY IS A HUGE, COMPLEX GLOBAL ENTITY – BUT IF YOU FOCUS ON ONE ICONIC CONSUMER PRODUCT IT OFFERS A SNAPSHOT OF HOW WE ALL CONTRIBUTE TO THE ISSUE OF INDUSTRIAL WATER POLLUTION.</p> <p>INVESTIGATORS, AS WELL AS SOME WHO WORK IN THE FASHION INDUSTRY, HAVE LONG KNOWN THE DIRTY LITTLE SECRET BEHIND THE MANUFACTURING OF BLUE JEANS. THIS ICONIC PRODUCT ILLUSTRATES SOME OF THE MOST VISIBLE AND GROSS POLLUTION CAUSED BY OVERSEAS PRODUCTION... BUT IT WASN'T ALWAYS THIS WAY.</p>
<p>NARRATOR</p>	<p>FROM THE 1960S TO THE 1990S EL PASO, TEXAS HELD THE TITLE BLUE JEANS CAPITAL OF THE WORLD, PRODUCING ALMOST 2 MILLION PAIRS OF JEANS PER WEEK. NOW IT'S JUST A SHELL OF ITS FORMER SELF.</p> <p>THE ONCE MIGHTY RIO GRANDE, A GREAT WATER RESOURCE, RAN DIRECTLY THROUGH EL PASO BEFORE IT BEGAN TO DRY UP, BUT THE REAL IMPETUS TO EL PASO LOSING THE BLUE JEANS MANUFACTURING BASE, WAS THE SIGNING OF A FREE TRADE AGREEMENT ALLOWING CLOTHING BRANDS TO LOOK FURTHER AFIELD FOR LOWER COSTS LABOUR AND PRODUCTION.</p>

## Voice / Narration

## AUDIO

<p>56:54</p> <p>BILL CLINTON</p>	<p>AND THE GREAT QUESTION OF THIS DAY IS HOW TO INSURE SECURITY FOR OUR PEOPLE AT A TIME WHEN CHANGE IS THE ONLY CONSTANT. I BELIEVE WE HAVE MADE A DECISION NOW THAT WILL PERMIT US TO CREATE ECONOMIC ORDER IN THE WORLD THAT WILL PROMOTE MORE GROWTH MORE EQUALITY BETTER PRESERVATION OF THE ENVIRONMENT AND A GREATER POSSIBILITY OF WORLD PEACE. WE ARE ON THE VERGE OF A GLOBAL ECONOMIC EXPANSION THAT IS SPARKED BY THE FACT THE UNITED STATES AT THIS CRITICAL MOMENT DECIDED THAT WE WOULD COMPETE NOT RETREAT. IN A FEW MOMENTS I WILL SIGN THE NORTH AMERICAN FREE TRADE ACT INTO LAW, NAFTA WILL TEAR DOWN TRADE BARRIERS BETWEEN OUR THREE NATIONS IT WILL CREATE THE WORLDS LARGEST TRADE ZONE AND CREATE 200,000 JOBS IN THIS COUNTRY BY 1995 ALONE.</p>
<p>57:50</p> <p>NARRATOR</p>	<p>SOON AFTER NAFTA'S SIGNING, MANUFACTURERS LEFT FOR MEXICO AND EVENTUALLY OFFSHORE TO CHINA, INDONESIA AND BANGLADESH. INDUSTRY ALSO EXPORTED IMMENSE ENVIRONMENTAL PROBLEMS SIMPLY BECAUSE THE ENVIRONMENTAL REGULATIONS IN THOSE COUNTRIES WERE NOT NEARLY AS STRONG AS WHAT EXISTS IN THE UNITED STATES. SO WHERE DID ALL THOSE JOBS AND JEANS GO? THEY CAME HERE...XIANTANG THE NEW JEANS CAPITAL OF THE WORLD.</p>



## Voice / Narration

## AUDIO

<p>58:18</p> <p>MARK ANGELO</p>	<p>TEXTILES ARE A HUGE INDUSTRY IN CHINA LAST YEAR THE COUNTRY EXPORTED MORE THAN 200 BILLION DOLLARS IN APPAREL AND XIANTANG IS THE BLUE JEAN CAPITAL OF THE WORLD THEY PRODUCE ABOUT 300 MILLION PAIRS OF JEANS A YEAR A THIRD OF THE WORLDS SUPPLY.</p>
<p>58:35</p> <p>NARRATOR</p>	<p>AS EARLY AS 30 YEARS AGO THIS CITY HAD A SMALL MANUFACTURING BASE MAKING BLUE JEANS. WHAT STARTED OFF AS JUST A FEW "MOM AND POP" OPERATIONS, HAS BLOSSOMED INTO BECOMING A MAJOR EXPORTER OF BLUE JEANS TO THE WORLD MARKET, WITH A HUGE ENVIRONMENTAL IMPACT.</p>
<p>58:52</p> <p>TIANJE MA</p>	<p>I THINK SOME CONSUMERS JUST DON'T REALIZE WHAT KIND OF ENVIRONMENTAL IMPACT OR ENVIRONMENTAL FOOTPRINT ONE SINGLE PIECE OF JEAN WOULD CARRY WHEN PRODUCING ONE PIECE OF JEAN ACTUALLY IT USES UP A LOT OF WATER FOR WASHING AND OTHER PROCESSES IT ALSO RELEASES A LOT OF POLLUTED WATER INTO THE ENVIRONMENT.</p>
<p>59:11</p> <p>NARRATOR</p>	<p>MAKING A PAIR OF JEANS CAN BE A WATER INTENSIVE PROCESS. LEVI'S, THE ICONIC MANUFACTURER OF BLUE JEANS, DID A STUDY OF HOW MUCH WATER WENT INTO THE MAKING ONE PAIR OF THEIR 501 JEANS. THEY DISCOVERED IT TOOK ALMOST 920 GALLONS OF WATER 400 MEGA JOULES OF ENERGY AND EXPELLED 32 KILOGRAMS</p>

Voice / Narration

AUDIO

	<p>OF CARBON DIOXIDE. LEVIS SAID THAT THIS WAS THE EQUIVALENT TO RUNNING A GARDEN HOSE FOR 106 MINUTES, DRIVING 78 MILES AND POWERING A COMPUTER FOR 556 HOURS.</p>
<p>59:48 MA JUN</p>	<p>WE FOUND THAT THIS INDUSTRY IS HAVING ONE OF THE LOWEST IF NOT THE LOWEST RATE OF WATER RECYCLING THEY JUST WANT TO USE THE WATER ONCE AND THEN THEY JUST DISCHARGE THAT INTO THE RIVERS. AND THEY'VE GOT SO MUCH CONCENTRATED IN SOME PARTS OF CHINA SO WITH THAT CONCENTRATION OF POLLUTION THE IMPACT TO THAT LOCAL REGION IS VERY SERIOUS.</p>
<p>01:00:12 NARRATOR</p>	<p>IT'S BEEN ESTIMATED THAT IN A SINGLE YEAR, ONE LARGE FASHION BRAND WILL USE THE EQUIVALENT OF WATER THAT IS IN 43,000 OLYMPIC-SIZED SWIMMING POOLS – THE TEXTILE INDUSTRY IS ONE OF THE LARGEST CONSUMERS OF WATER IN THE WORLD, USING 3.2 PER CENT OF ALL WATER AVAILABLE TO THE HUMAN RACE EVERY YEAR.</p>
<p>01:00:32 MARK ANGELO</p>	<p>TEXTILES ENVIRONMENTALLY CAN BE A DIRTY BUSINESS AND THE FABRIC DYES USED FOR JEANS CONTAINS HAZARDOUS MATERIALS THINGS LIKE MERCURY CADMIUM AND LEAD AND THE LOCAL INDUSTRY HERE HAS LONG BEEN ACCUSED OF RELEASING ITS WASTEWATER DIRECTLY INTO THE PEARL RIVER SO WHILE CHINA HAS REAPED HUGH ECONOMIC BENEFITS FROM THE TEXTILE</p>

## Voice / Narration

## AUDIO

	INDUSTRY THAT SAME INDUSTRY HAS BEEN A MAJOR CONTRIBUTOR TO ITS WATER POLLUTION PROBLEM.
01:00:56 ORSOLA DE CASTRO	WE DON'T OWN THE FACTORIES ANYMORE IF YOU OWN YOUR FACTORY YOU WILL HAVE RULES AND REGULATIONS BUT ALSO AN INSTINCT TO BE EXTREMELY EFFECTIVE IN YOUR PRODUCTION AND THAT INCLUDES MANAGING YOUR WATER AND MANAGING YOUR WASTE. IF YOU DON'T OWN YOUR FACTORIES LET ALONE KNOW THE MAJORITY OF WHERE YOUR CLOTHES ARE BEING MADE YOU HAVE ABSOLUTELY NO INTEREST AND A GREAT FACILITY TO GO TO BED AT NIGHT THINKING THAT'S NOT MY PROBLEM.
01:01:26 NARRATOR	ORSOLA DE CASTRO, A LEADER IN SUSTAINABLE FASHION, HAS CREATED A CLOTHING LINE MADE ENTIRELY FROM DISCARDED MATERIALS. SHE'S CONCERNED THAT HER INDUSTRY IS ONE OF THE WORLD'S BIGGEST POLLUTERS, WITH A BUSINESS MODEL BASED ON HIGH VOLUME/LOW COST CLOTHING, WHAT MANY CRITICS CALL FAST FASHION.
01:01:46 ORSOLA DE CASTRO	THE REASON WHY WE LET FASHION POLLUTE SO MUCH AND WE LET IT GO THIS FAR IS PROFIT. RICH FAT MEN ON BOARDS WANTING TO MAKE MORE AND MORE MONEY.
01:01:57 NICOLE BRIDGER	I DON'T THINK THAT WE CAN ANY LONGER SIT BY WHILE PEOPLE ARE SUFFERING AND THE PLANET IS SUFFERING FOR US TO HAVE ECONOMIC GAIN. IF EVERYBODY ON THIS PLANET LIVED THE WAY

## Voice / Narration

## AUDIO

	NORTH AMERICANS DOES WE WOULD NEED EIGHT PLANETS.
01:02:16 ERIC DICKSTEIN	YOU KNOW IT'S FUNNY BECAUSE THESE COMPANIES CAN PRETEND LIKE THEY DON'T KNOW WHAT IS GOING ON BUT THEY ABSOLUTELY DO KNOW WHAT'S GOING ON. THEY DON'T WANT TO ACKNOWLEDGE IT BECAUSE IT MEANS THEY ARE WILLING PARTICIPANTS OF DESTROYING THE ENVIRONMENT.
01:02:34 NICOLE BRIDGER	YOU ARE COMPLETELY RESPONSIBLE AS A COMPANY FOR HOW YOUR MAKING YOUR PRODUCT, ARE THEY ACTING THAT WAY NOT NECESSARILY FOR THE MOST PART NOT AT ALL.
01:01:44 ORSOLA DE CASTRO	DENIM THE WAY THAT WE LOOK AT IT NOW THE WAY THAT WE HAVE IT NOW WILL BE SEEN AS FASHIONS GREATEST STUPIDITY, DISTRESSED DENIM, INSANITY MADE VISIBLE. IT HAS BECOME A HUGE HAZARD TO THE ENVIRONMENT AND SO THE IDEA THAT WE CAN BE DESTROYING THE PLANET FOR THE SAKE OF CLOTHING ESPECIALLY THE TYPE OF CLOTHING THAT WE ARE WEARING THESE DAYS IS CRIMINAL.
01:03:16 PETER GOLDING	MAYBE IT'S BECAUSE THE DEMAND OF THE WORLD HAS GONE CRAZY FOR THIS LOOK AND THEY WANT STUFF TO BE DISTRESSED AND STRIPES ON IT. NO VINTAGE JEAN EVER LOOKED LIKE THAT SO THERE IS A DIFFERENCE BETWEEN THE EARLY PROCESSING WHICH IS REALLY JUST TO GET IT TO LOOKED A LITTLE BIT OLD A LITTLE BIT WORN HERE AND HERE FINE NOT EVEN WISKERS THERE WEREN'T WISKERS AND THAT STUFF YOU KNOW COME ON GUYS.

## Voice / Narration

## AUDIO

<p>01:03:42</p> <p>ORSOLA DE CASTRO</p>	<p>THE CHEMICALS USED IN ORDER TO CREATE THE LOOKS, WHETHER THEY ARE CALLED THE WHISKERS YOU KNOW THE TEAR, ARE BEYOND UNBELIEVABLE AND CONTINUOUS. THERE ARE THE ONES THAT MAKE IT LOOK DISTRESSED THROUGH PAINT OR DISTRESSED THROUGH YOU KNOW SAND PAPER WHATEVER, ONE OF THE FUNNIEST SCENES I SAW IN ONE OF THESE DENIM FACTORIES WAS THIS HUGE WAREHOUSE FULL OF PEOPLE JUST...LITERALLY SANDPAPERING DAY IN DAY OUT SANDPAPERING DENIM AT 98 PERCENT HUMIDITY WHILE THEY WORKED BECAUSE THAT'S WHAT YOU NEED TO PRESERVE THE RIGHT CHEMICAL, WHICH IS AN INCREDIBLY UNPLEASANT WAY OF WORKING.</p>
<p>01:04:29</p> <p>FRANCOIS GIRBAUD</p>	<p>THEY ARE DYING FOR THE JEAN, DOING JEANS, BREATHING ALL THIS ACID AND THAT'S DESTROYING YOUR LUNGS, OK PEOPLE DIE DO WE WANT NOW JUST TO HAVE BECAUSE WE HAVE A DISTRESSED JEAN YOU WEAR DISTRESSED JEANS AND YOU KILL SOMEBODY.</p>
<p>01:04:49</p> <p>NARRATOR</p>	<p>FRANCOIS GIRBAUD IS CREDITED AS THE MAN WHO INVENTED STONE WASHED JEANS. EARLY ON HE ALSO BEGAN USING CHEMICALS TO GET THE DISTRESSED LOOK IN DENIM PRODUCTS.</p>
<p>01:05:13</p> <p>FRANCOIS GIRBAUD</p>	<p>WE MAKE A MISTAKE AT THE BEGINNING WE WERE RESPONSIBLE WHEN WE START FIRST WE DON'T REALIZE WHAT WE DID WAS WRONG BECAUSE WE MAKE A MISTAKE. IF YOU TALK TO ME, IF WE</p>

## Voice / Narration

## AUDIO

	<p>WERE TALKING I DON'T KNOW BEFORE 1989 I TRIED TO FIND EVERYTHING MORE, MORE AND MORE CORROSIVE. WE MAKE ALL THESE TREATMENT AND WASHING ALL THE PROCESS OF WASHING WE INVENT. FROM 72 TO 89 CONTINUOUS INVENTIONS FROM USING PERMANGANATE USING EVERYTHING, ACID ETC ETC BUT I REALIZED THE IMPORTANCE OF OUR WORK WHAT WE DID WHAT WAS THE REACTION BECAUSE POLLUTION OF RIVERS EVERYTHING WE INVENT THAT.</p>
<p>01:05:53 ENRIQUE SILLA</p>	<p>THE FATHERS OF OUR INDUSTRY PEOPLE LIKE FRANCOIS GIRBAUD, LIKE ADRIANO GOLDSMEID, THEY INVENT STONE WASH THEY INVENT BLEACHING, THEY INVENT POTASIUUM PERMANGANATE AND AT THAT TIME THEY WERE JUST TRYING TO FIND A BEAUTIFUL PRODUCT AND A GREAT PRODUCT AND THEY DIDN'T REALIZE THAT THESE INVENTIONS ONE DAY WILL DAMAGE THE ECOLOGY THE PLANET AND THE RIVERS.</p>
<p>01:06:27 FRANCOIS GIRBAUD</p>	<p>WE HAVE TO SLOW DOWN, WE HAVE TO SLOW DOWN THE CHEMICALS, IF EVERYBODY IF THE CONSUMER KNOWS THIS BEAUTIFUL WHITE HERE IS MADE BY ACID AND THIS ACID IS SOMETHING DESTROYING THE PLANET WE ARE COMMITTING A SUICIDE FOR THE PLANET WE ARE SURELY, WE KNOW, WE GO, WHAT WE TALK ABOUT NEW GENERATION WHAT WE TALK ABOUT THAT,</p>

## Voice / Narration

## AUDIO

	IT'S NO FUTURE, IF WE CONTINUE LIKE THIS ITS DONE, ITS DONE.
01:06:53 ENRIQUE SILLA	THE MAIN THING THAT HAPPENED AT THE END OF THE 80'S AND STARTING IN THE 90'S WE HAVE A TREMENDOUS DE-LOCALIZATION OF THE PRODUCTION FROM THE US TO CHINA FROM ITALY, SPAIN SOUTH EUROPE WHERE WE HAD A STRONG PRODUCTION PLACE TO INDIA ETC, SO IMMEDIATELY THE BIG PLANTS STARTED TO PRODUCE WITHOUT WATER TREATMENT PLANTS THROWING THEIR DIRTY WATER TO THE RIVERS AND DESTROYING THE PLANET AND AT THE SAME TIME THE CONSUMPTION INCREASED TREMENDOUSLY, AMERICA PEOPLE BUY FOUR JEANS EVERY YEAR, IN EUROPE 1.5 JEANS EVERY YEAR SO CONSUMPTION TREMENDOUSLY INCREASED.
01:07:41 NARRATOR	IN THE PAST TWENTY YEARS, CHINA HAS EFFECTIVELY DOUBLED THE AMOUNT OF TEXTILES IT PRODUCES. AT FIRST GLANCE, THIS REPRESENTS GOOD NEWS FOR THE CONSUMERS WHO BENEFIT FROM CHEAPER CLOTHING AND QUICKER TURNAROUND IN STYLES, BUT AS THE PRICES PLUMMENTED IN THE FASHION INDUSTRY, IT WAS CHINA'S WATERWAYS AND THE PEOPLE WHO RELY ON THEM, WHO WERE PAYING THE PRICE OF AN INCREASING AMOUNT OF UNTREATED WASTEWATER BEING DUMPED INTO THESE RIVERS.
NARRATOR	THE TOXIC EFFECTS OF INDUSTRIALIZATION APPEAR IRREVIRSABLE, BUT HISTORY HAS PROVEN THAT A BIOLOGICALLY DEAD RIVER, CAN

## Voice / Narration

## AUDIO

	BE REVERSED.
01:08:27 MARK ANGELO	FOURTY YEARS AGO THIS RIVER WAS IN REAL TROUBLE. THERE WAS NO SIGNS OF LIFE PRIMARILY BECAUSE OF THE POLLUTION IN THE RIVER.
01:08:35 NARRATOR	GLOBALLY, WE CAN LEARN FROM THE MASSIVE CONSERVATION EFFORTS AND STRICT LEGISLATION IMPLEMENTED IN LONDON AGAINST THE DUMPING OF TOXINS THAT ALLOWS RIVERS LIKE THE THAMES TO REGENERATE.
01:08:48 MARK ANGELO	THERE ARE LOTS OF SIGNS OF LIFE HERE NOW, THERE IS 125 SPECIES OF FISH BACK IN THE RIVER. THAT CERTAINLY IS A CAUSE FOR HOPE.
01:09:02 FRANCOIS GIRBAUD	WE COULD SAVE THE PLANET IF THE PLANET WANTS.
01:09:19 NARRATOR	MILAN, ONE OF THE WORLD'S MOST IMPORTANT FASHION CAPITALS ALONG WITH LONDON, NEW YORK AND PARIS, BUT WE HAVEN'T COME HERE TO SHOP RETAIL...RATHER WE'VE MADE THE JOURNEY TO A SMALL TOWN OUTSIDE OF MILAN WHERE A TEXTILE COMPANY HAS ADOPTED A NEW TECHNOLOGY IN ORDER TO CHANGE THE WAY THAT DENIM IS PRODUCED.
01:09:39 LUIGI CACCIA	FOURTY YEARS AGO THE SITUATION WAS COMPLETELY DIFFERENT, NO RULES FOR THE WATER, SO YOU DIDN'T CARE ABOUT THE WATER POLLUTION, ABOUT THE CHEMICALS. SO THE MIDDLE OF THE 70'S TO



## Voice / Narration

## AUDIO

	<p>THE MIDDLE OF THE 80'S WAS, I THINK, A REAL MESS IN ITALY FOR EVERYBODY. WE PUT MONEY IN THE WATER TREATMENT, WE PUT MONEY TO PAY ATTENTION IN WHAT WE ARE DOING AND ONLY WHEN YOU PUT MONEY YOU CAN UNDERSTAND THAT YOU ARE USING CHEMICALS THAT YOU DON'T NEED.</p>
<p>01:10:09 NARRATOR</p>	<p>LUIGI CACCIA, THE SECOND-GENERATION OWNER OF ITALDENIM MANAGES ONE OF THE LEADING COMPANIES IN EUROPE FOR THE PRODUCTION OF DENIM. HIS COMPANY WAS ONE OF THE FIRST TO EMBRACE GREENPEACE'S DETOX CAMPAIGN.</p>
<p>01:10:23 LUIGI CACCIA</p>	<p>OUR FIRST POINT IS TO MAKE BUSINESS. BUT, AT THE END, WE CAN UNDERSTAND ONLY GOING DEEPER TO UNDERSTAND HOW MANY DANGER THINGS WE ARE MAKING JUST TO MAKE A PAIR OF DENIM.</p>
<p>01:10:36 NARRATOR</p>	<p>LUIGI SAYS IT'S HARD FOR HIS COMPANY TO COMPETE WITH OFFSHORE DENIM COMPANIES, MANY WHO DON'T PUT ANY MONEY INTO POLLUTION CONTROLS.</p>
<p>01:10:43 LUIGI CACCIA</p>	<p>THE WORST ARE USING THE CHEMICALS IN EXCESS. THE PRICE IS LOWER, THE QUALITY IS PRETTY GOOD. SO, HOW CAN I COMPETE WITH THIS?</p> <p>THIS IS THE BIG DIFFERENCE BETWEEN US AND THE REST OF THE WORLD THE WAY WE MAKE IT.</p>

Voice / Narration

AUDIO

<p>01:10:59</p> <p>NARRATOR</p>	<p>IN MANY WAYS, ITALDENIM FOLLOWS THE PATTERN OF MANY OTHER COMPANIES IN THE PRODUCTION OF DENIM. BUT THERE ONE MAJOR STEP THAT ITALDENIM IMPLEMENTS IN THE TREATMENT OF THEIR COTTOM, THAT ELIMINATES TOXIC CHEMICALS AND REDUCES WATER USAGE BY UP TO 80%.</p> <p>THE PRODUCTION OF DENIM BEGINS WITH THE ARRIVAL OF COTTON TO THE PROCESSING FACILITY, WHERE THE RAW PRODUCT IS BROKEN DOWN INTO THIN STRANDS THAT WRAP FROM MACHINE TO MACHINE TO BUILD A STRONG YARN.</p> <p>ONCE THE YARN IS SPUN, THE ROLL IS READY FOR DYEING. THIS IS WHERE ITALDENIM HAS TAKEN A HUGE TURN AND CHANGED THE PROCESSING OF DENIM.</p> <p>ITALDENIM TURNED TO THE OCEAN FOR A SOLUTION TO STANDARD CHEMICAL PROCESSING, THEY LEARNED THAT BY USING THE EXO-SKELETON OF SHELLFISH CRUSHED INTO A FINE POWDER CALLED CHITOSAN, THEY COULD ENHANCE THE DYEABILITY OF DENIM.</p> <p>THE CHITOSAN IS A VERY SIMPLE, IT'S THE SHELLFISH OF THE CRAB OR THE SHRIMP, THAT IS THROWN AWAY FROM THE FOOD</p>
<p>01:11:52</p>	

Voice / Narration

AUDIO

<p>LUGI CACCIA</p>	<p>INDUSTRY, IT IS RECOVERED AND TRANSFORMED INTO CHITOSAN AND IT GOES INTO THE CIRCULAR ECONOMY BECAUSE WE REUTILIZE SOMETHING THAT SOMEONE ELSE HAS THROWN AWAY.</p>
<p>01:12:10 NARRATOR</p>	<p>CHITOSAN IS A NATURAL AND INCREDIBLY STRONG FIXING AGENT, THAT REDUCES THE AMOUNT OF CHEMICALS USED TO MAKE YOUR BLUE JEANS BLUE.</p>
<p>01:12:19 LUGI CACCIA</p>	<p>THIS IS THE CHITOSAN, IT IS A COMPLETELY 100% NON TOXIC AND BIOCOMPATIBLE PRODUCT. WE USE MIXING WITH SIMPLY WATER SO WE PUT IN THE WATER HERE LIKE THIS AND WE GET, AT THE END, THIS KIND OF PASTA IT'S A KIND OF CREAM. THERE IS NO DANGER IN TOUCHING. THIS CREAM GOES TO THE MACHINE, AND WE APPLY DIRECTLY ON THE YARN. SO HERE IS WHERE WE APPLY THE CHITOSAN. WE DON'T NEED ANYMORE ANY FIXING AGENT, BECAUSE THE CHITOSAN WITH THE LIGHT FIX LIKE A SHELL AROUND THE YARN, AND PROTECT THE YARN AND THE COLOUR TOO. YOU DON'T NEED TO PUT OTHER CHEMICALS LIKE P.V.A. THIS MICRO PLASTIC THAT GOES INTO THE WATER, THAT GOES INTO THE RIVER, AND IT GOES INTO THE SEA AND IT GOES INTO THE FISH FOR SURE. IT'S IMPOSSIBLE TO STOP. WE WANT TO REACH THE 360 DEGREES USING CHITOSAN AND WE COULD ELIMINATE A HUGE QUANTITY OF CHEMICALS. THIS IS ONE STEP THAT IS A REVOLUTIONARY STEP INTO</p>

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AUDIO

<p>01:13:29 NARRATOR</p>	<p>THE TEXTILE DENIM INDUSTRY AND I THINK IT IS ONE OF THE WAYS TO APPROACH THE FUTURE OF THIS JOB.</p> <p>THIS IS BREAKTHROUGH SCIENCE IN THE TEXTILE INDUSTRY AND IF ADOPTED BY LARGE BRANDS, THE POSITIVE IMPACT ON THE ENVIRONMENT CAN'T BE OVERSTATED.</p>
<p>01:13:38 LUIGI CACCIA</p>	<p>THE FIRST POINT IS TO MAKE SOMETHING THAT HELP YOU TO SAVE MONEY. IF YOU SAVE CHEMICALS, YOU FIRST OF ALL, YOU SAVE MONEY, THEN YOU SAVE NATURE, BUT FIRST OF ALL YOU SAVE MONEY.</p>
<p>01:13:49 NARRATOR</p>	<p>THROUGH CUTTING BACK ON WATER USAGE AND INTRODUCING THEIR WATER-RECYCLING PROCESS, ITALDENIM HAS REDUCED THEIR INDUSTRIAL WASTE FOOTPRINT. THE PLANT ALSO RECAPTURES STEAM AND PRODUCES ITS OWN POWER.</p>
<p>01:14;16</p>	<p>THERE HAS BEEN AN ENORMOUS INVESTMENT IN BUILDING THIS INFRASTRUCTURE TO PRODUCE AN ENVIRONMENTALLY FRIENDLY FABRIC. THE COST TO THE BRANDS FOR THIS FABRIC IS ONLY PENNIES MORE THAN FABRIC PRODUCED IN A THIRD-WORLD COUNTRY.</p>
<p>01:14;16</p>	<p>THESE ARE ALL SMALL THINGS THAT A SMALL COMPANY LIKE US</p>



Voice / Narration

AUDIO

<p>01:16:02 ALEX PENADES</p>	<p>LOCAL ABRASION AND THE THIRD ONE IS WHAT WE CALL MANUAL SCRAPING. WHICH IS JUST SCRAPING MANUALLY THE JEANS PHYSICALLY ONE BY ONE JUST TO CREATE SOME AREAS THAT LOOK WORN.</p> <p>WE CONSUME ABOUT A 100 LITRES OF WATER FOR JUST FINISHING A PAIR OF JEANS, WHICH MEANS A LOT OF WATER JUST FOR THE FINISHING. WHY DON'T WE JUST IN TERMS OF FINISHING LOWER THAT IMPACT SO YOU AS A CONSUMER YOU HAVE THE RIGHT TO ASK THE BRAND THAT YOU ARE WEARING WHERE THAT JEAN CAME FROM AND HOW IT'S BEING MANUFACTURED AND FINISHED.</p>
<p>01:16:30 NARRATOR</p>	<p>JEANOLOGIA IS USING LASERS AS ONE TOOL TO DISTRESS THE JEANS ... BY USING LIGHT, THEY ARE ABLE TO ELIMINATE THE INDIGO BLUE COLOR IN RAW DENIM ... IT SOUNDS EASY, AND IT IS ... BUT YOU STILL HAVE TO BE CREATIVE IN ORDER TO REPLICATE THE WORN LOOK THAT CONSUMERS ARE SEEKING.</p>
<p>01:16:55 ENRIQUE SILLA</p>	<p>BASICALLY WHAT LASER IS DOING IS USING THE LIGHT TO ELIMINATE OR PHYSICALLY SUBLIMATE THE INDIGO FROM JEANS AND TO TRANSFER ANY IMAGE THAT WE CREATE IN A COMPUTER TO A JEAN. SO WE CAN MAKE DIGITAL PICTURES OF AUTHENTIC OR TRUE WORN JEANS AND WE CAN TAKE THE DETAIL FROM THERE WE CAN PLAY WITH THIS IMAGES, PICTURES IN A COMPUTER THEN WE CAN TRANSFER THIS AND ENGRAVE THIS THROUGH THE ENERGY OF THE</p>

Voice / Narration

AUDIO

	LIGHT IN A JEAN IN SECONDS.
01:17:35 NARRATOR	JEANOLOGIA IS ALSO TAKING WATER OUT OF THE EQUATION BY LOADING JEANS IN WHAT LOOKS LIKE A COMMERCIAL WASHING MACHINE TO GIVE JEANS THE WASHED OUT WORN LOOK. THEY'RE USING AN ELEMENT THAT WE TAKE FOR GRANTED EVERY MOMENT IN OUR LIVES ... AIR.
01:17:53 ALEX PENADES	THE G2 GETS THE AIR FROM THE ROOM AND THEN GETS THE OXYGEN OUT OF THE AIR AND IT CONVERTS THE OXYGEN O2 INTO OZONE O3 SO IT HAS NO NEED FOR WATER AT ALL AND IT DOES THE JOB THAT A NORMAL STONE WASH PROCESS WOULD DO FOR HOURS AND HOURS OF ENERGY AND LOADS AND LOADS OF WATER AND MANY OTHER PRODUCTS ALSO THAT ARE HARMFUL FOR NATURE. SO IT'S A COMPLETE ECOLOGICAL EFFICIENT AND WATERLESS TECHNOLOGY.
01:18:28 ENRIQUE SILLA	THE GOOD THING AND THAT'S THE BEAUTY OF THIS TECHNOLOGY IS THAT WE ELIMINATE WATER WITHOUT INCREASING THE COST. SO THAT'S FANTASTIC BECAUSE THEN THE CHOICE IS CLEAR IF YOU HAVE TWO JEANS ONE IS DAMAGING THE PLANET AND THE OTHER ONE NOT BOTH LOOKS EQUAL AND THE PRICE IS THE SAME I MEAN NO ONE WOULD CHOOSE THE WRONG ONE I MEAN THERE IS NO EXCUSE.

## Voice / Narration

## AUDIO

<p>01:19:02</p> <p>NARRATOR</p>	<p>TO HELP SELL THE LASER AND OZONE TECHNOLOGIES TO BRANDS WHO AGE DENIM WITH CHEMICALS...THE COMPANY HAS ENLISTED THE HELP OF ONE OF THE GODFATHERS OF DENIM DESIGN ... A MAN WITH A NEWFOUND MISSION ... WHO NOW WANTS TO HELP CLEAN UP THE MESS HE HELPED TO CREATE.</p>
<p>01:19:18</p> <p>FRANCOIS (FG)</p> <p>GIRBAUD &amp;</p> <p>ANTONIO</p> <p>RODRIGUEZ (AR)</p>	<p>AR: BECAUSE WHEN YOU DO A GARMENT IN THE OZONE OF COURSE YOU CAN'T JUST DO ONE GARMENT YOU HAVE TO DO ELEVEN POUNDS WET OR DRY.</p> <p>FG: ABSOLUTELY, BUT WHAT IS INTERESTING IS WE ARE NOT USING CHEMICAL.</p> <p>AR: ALL THERE IS, IS JUST ELECTRICITY AN AIRLINE AND THAT'S IT.</p> <p>FG: THAT'S IT AIR</p>
<p>01:19:37</p> <p>NARRATOR</p>	<p>FRANCOIS HAS JUST STARTED WORKING WITH THIS DENIM FACILITY, A PLACE WHERE NEW TECHNOLOGIES ARE BUMPING INTO THE OLD WAYS OF DISTRESSING JEANS.</p>
<p>01:19:45</p> <p>FRANCOIS GIRBAUD</p> <p>&amp;</p> <p>ANTONIO</p> <p>RODRIGUEZ</p>	<p>FG: THAT MACHINE YOU KNOW, IT'S A STONE WASH MACHINE ALL THAT, WHEN I DID THAT I NEVER IMAGINED IT WAS LIKE THIS, BUT THAT MY FRIEND IS OLD TECHNOLOGY, IT'S REALLY OLD.</p> <p>AR: IT'S GOOD TECHNOLOGY APPARENTLY IT STILL WORKS TODAY.</p> <p>FG: IN THE PAST, IN THE PAST, WHAT IS IMPORTANT HERE FOR ME IT'S VERY IMPORTANT IF I INVENT THE STONE WASH AND NOW WE ARE INVENTING THE WATT WASH WE ARE WASHING WITH ENERGY. I THINK IT'S A IN ONE LIFE TO DO SOMETHING LIKE INVENTING</p>



Voice / Narration

AUDIO

	<p>SOMETHING AND THEN DOING THE ANTITHESIS OF THAT IS  WONDERFUL I SEE THAT, IT'S GREAT. IT'S GREAT  AR IT'S CRAZY FROM THEN TO NOW HOW MUCH YOU ARE  CHANGING THINGS.  FG: LOOK PEOPLE WITH A MASK, WE HAVE TO SAVE THAT BECAUSE  LIVING WITH A MASK I DON'T THINK IS A GOOD FUTURE.  AR: I AGREE  FG: YOU KNOW ALL THESE KIND OF CHEMICALS, HOW DO YOU LIVE  WITH THAT. YOU SEE, YOU NEED A MASK, THAT SPONGING,  SCRUBBING, SPONGING ALL THAT KIND OF CRAP ALL IN THE PAST, IN  THE PAST.</p>
<p>01:21:09  PETER GOLDING</p>	<p>FRANCOIS WAS AN INNOVATOR WITH PASSION AND SENSITIVITY  AND I THINK THAT'S WHAT'S NEEDED, IT'S THE PASSION AND  SENSITIVITY, THAT DRIVE, DESIGN, AND DESIGN IN A WAY SHOWS  YOU CARE. I DID CREATE THE FIRST STRETCH JEAN IN MY HUMBLE  OPINION, IN MY NOT SUCH HUMBLE OPINION. THE FIRST ONES  WERE JUST GARMENT WASHED THEIR WAS NO BLEACHING OR  ANYTHING LIKE THAT IT WASN'T NECESSARY.</p>
<p>01:21:39  FRANCOIS GIRBAUD</p>	<p>IT TOOK FOURTY YEARS BEFORE WE START TO UNDERSTAND THAT  WHAT WE DID WAS WRONG.</p>

## Voice / Narration

## AUDIO

<p>01:21:46</p> <p>PETER GOLDING</p>	<p>WE ARE ALL A BIT GUILTY OF ALL THAT, FRANCOIS, ADREANO, OR ANY OF US. I THINK IT'S THE DEGREE OF WHICH IT'S GONE YOU KNOW. I'M SURE THERE IS MANY EXAMPLES IN LIFE WHERE SOMEBODY STARTS SOMETHING QUITE NAIVIELY.</p>
<p>01:22:05</p> <p>NARRATOR</p>	<p>A YOUNG DENIM DESIGNER, ERIC DICKSTEIN HAS HAD TO LEARN THE BUSINESS BY TRIAL AND ERROR, WHILE KEEPING TO HIS CORE BELIEF IN MAKING AN ETHICAL JEAN PRODUCT.</p>
<p>01:22:15</p> <p>ERIC DICKSTEIN</p>	<p>DENIM IS ONE OF THE BIGGEST COMMODITIES IN THE WORLD. IF YOU TRAVEL TO CHINA WHERE MOST OF THE WORLD MANUFACTURES FOR THE MASS CONSUMERS WELL YOU END UP WITH HAVING RIVERS THAT ARE TURNING BLUE THEY'RE LIKE ILLUMINATING BECAUSE OF THE CHEMICALS THAT ARE IN THE WATER.</p> <p>ITS' HARD TO FIND OUT THE TRUTH SOMETIMES YOU KNOW WHAT I LEARNED IS THAT PEOPLE CLOSE THEIR EYES THAT'S REALLY WHAT I LEARNED. I LEARNED THAT NO ONE REALLY WANTS TO TALK ABOUT THE LITTLE MONSTER IN THE CLOSET SO YOU DON'T LEARN THE DETAILS BECAUSE PEOPLE DON'T WANT TO TALK ABOUT THEM BECAUSE AT THE END OF THE DAY IT'S NOT A SELLING POINT.</p>

Voice / Narration

AUDIO

<p>01:23:17 LUKUS EICHMANN</p>	<p>OFTEN TIMES YOU LEARN BY SOMEONE DOING IT THE RIGHT WAY NOT THE WRONG WAY. THE GUY WHO'S DOING IT THE RIGHT WAY WILL TELL YOU ALL THE THINGS THAT ARE GOING WRONG IN THE INDUSTRY. ITS DEFINITELY PEOPLE THAT ARE TRYING TO MAKE CHANGE THAT WILL OFTEN TELL YOU WHAT IS ACTUALLY GOING ON.</p> <p>WE CAN CONTROL THE AMOUNT OF OZONE THAT'S GENERATED HOW LONG WE CAN EXPOSE THE JEAN TO THE OZONE AND REALLY CONTROL THE FADING AND STILL GET THAT BEAUTIFUL KIND OF CONTRAST THE HIGHS AND LOWS WITHOUT USING ANY TOXIC CHEMICALS AND WITHOUT USING ANY PUMICE STONE AND THAT'S REALLY I THINK ONE OF THE MORE DETRIMENTAL PARTS OF DENIM LAUNDRY.</p>
<p>01:23:40 NARRATOR</p>	<p>LUKUS EICHMANN AND ERIC DICKSTEIN ARE A NEW BREED OF JEAN DESIGNERS AND BOUTIQUE MANUFACTURERS WHO ARE COMMITTED TO TRANSPARENCY AND PRODUCING ETHICAL JEANS.</p> <p>THEIR OUTPUT IS A MICRODOT IN THE GLOBAL PRODUCTION THAT COMPANIES LIKE LEVI'S, GAP, OLD NAVY AND OTHER LARGE BRANDS HAVE IN THE WORLD MARKETPLACE ... BUT WHAT'S IMPORTANT IS THAT THEY'RE ON THE CUSP OF A GROWING MOVEMENT OF MANY SMALL ETHICAL LABELS AROUND THE WORLD WHO ARE CONCERNED</p>

Voice / Narration

AUDIO

	<p>WITH THE MASSIVE POLLUTION BEING CREATED IN THE CURRENT JEANS LANDSCAPE.</p>
<p>01:24:13 LUKUS EICHMANN</p>	<p>SO THE OPTION WAS YOU KNOW TO GO WITH THAT OLD SCHOOL MENTALITY AND THE EXISTING INFRASTRUCTURE THAT'S OUT THERE USING TOXIC CHEMICALS AND POTASIUUM PERMANGANATE AND PUMICE STONE WHICH HAS A HUGH CARBON FOOTPRINT TO MINE AND HAUL CREATES A HUGH AMOUNT OF WASTE AFTERWARDS OR KIND OF COME UP WITH SOMETHING NEW, INVEST MONEY IN THE WAY THAT WE MAKE THE JEAN AND COMPLETELY CONTROL EVERY ELEMENT OF HOW THE JEAN IS PROCESSED IN THE WASH AND MAKE A REALLY BEAUTIFUL PRODUCT AND PROVE TO THE WHOLE INDUSTRY IT CAN HAPPEN.</p>
<p>01:24:43 ERIC DICKSTEIN</p>	<p>WHEN YOUR DOING SOMETHING NEW THERE'S FEWER CLIENTS TO DEAL WITH SO BASICALLY YOUR BUILDING A BRAND, WISER WASH, ECO PRK, THAT'S A BRAND AND THEIR BRAND IS HEALTHY LIFESTYLE ENVIRONMENT, POSITIVE WHICH ARE AWESOME THINGS BUT THERE IS NOT ENOUGH PEOPLE ARE JUMPING ON THAT BAND WAGON AT THIS POINT BUT AS SOON AS THE BIG BOYS THE PEOPLE WHO PROBABLY CONTROL MOST OF THE MARKET SAY YEAH WE GOT TO JUMP ON THAT MOVEMENT THERE WILL BE NO DIFFERENCE IN PRICE.  I DON'T THINK IT NECESSARYILY HAS TO COST MORE AND ACTUALLY</p>



Voice / Narration

AUDIO

<p>ORSOLA DE CASTRO</p>	<p>80 BILLION GARMENTS OF CLOTHES ARE BEING DELIVERED OUT OF FACTORIES AND THOSE ARE THE ONES THAT MAKE IT OUT. SO WE DON'T THINK ABOUT ALL OF THE ONES FOR THOSE 80 BILLION AMOUNT OF GARMENTS THAT COME OUT OF FACTORIES PROBABLY AN EQUAL AMOUNT THAT HAS BEEN MADE IN FACTORIES BUT IT'S WRONG AND THAT'S DISGARDED SO YOU KNOW IT'S LANDFILLS, THEIR DISCARDED INTO WATER, YOU KNOW IT JUST GOES ON AND ON AND ON.</p>
<p>01:26:57 NARRATOR</p>	<p>IN HER BOOK OVERDRESSED ... WRITER ELIZABETH CLINE WROTE AS ANY ECONOMIST WILL TELL YOU, CHEAPER PRICES STIMULATE CONSUMPTION AND THE CURRENT LOW RATE OF FASHION HAS SPURRED A SHOPPING FREE-FOR-ALL, WHERE, IN THE UNITED STATES CONSUMERS ARE BUYING AND HOARDING ROUGHLY TWENTY BILLION GARMENTS PER YEAR.</p>
<p>01:27:17 ORSOLA DE CASTRO</p>	<p>THE CONSUMER DID NOT WAKE UP ONE MORNING SAYING, ACTUALLY I AM FED UP OF SPENDING, I WANT TO BUY 5 PAIRS OF JEANS FOR A FRACTION OF THE PRICE...WE WERE LITERALLY INTRODUCED TO THIS CONCEPT BY THE FASHION INDUSTRY AS A NEW BUSINESS MODEL WHICH IS ENTIRELY TO DO WITH INCREASING PROFITS.</p>
<p>01:27:40</p>	<p>WE'RE DEPLETING OUR NATURAL RESOURCES. WE'VE PERMANENTLY</p>

Voice / Narration

AUDIO

<p>NARRATOR</p>	<p>ALTERED OUR CLIMATE. IN CHINA, WHERE MOST OF OUR CLOTHES ARE PRODUCED AND WHERE A BURGEONING POPULATION IS GAINING A TASTE FOR FASHION, WE ARE CREATING ANOTHER ENVIRONMENTAL CRISES FOR THE PLANET.</p> <p>BUT WE CAN'T BLAME ONE COUNTRY. WE HAVE TO LOOK GLOBALLY AND REALIZE THAT BY BUYING SO MUCH CLOTHING AND TREATING IT AS DISPOSABLE WE ARE PUTTING A HUGE WEIGHT ON THE ENVIRONMENT, AND IT IS SIMPLY, UNSUSTAINABLE.</p> <p>WHEN THE NAME OF THE GAME IS FAST AND CHEAP IS IT ANY WONDER THAT THE COSTS OF PROTECTING THE ENVIRONMENT ARE OFTEN NO WHERE TO BE FOUND IN THE OPERATING BUDGETS OF COMPANIES WHO SUPPLY OUR INSATIABLE APPETITE FOR FAST FASHION?</p> <p>CRITICS OF THIS TREND AGREE THAT SOMETHING MUST BE DONE.</p>
<p>01:28:28 ERIC DICKSTEIN</p> <p>01:28:35 NICOLE BRIDGER</p>	<p>THE CHANGE WILL HAPPEN, HOW QUICKLY IS DETERMINED BY THE CONSUMER.</p> <p>YOU CAN MAKE A DIFFERENCE BY VOTING WITH YOUR WITH YOUR DOLLAR, JUST CHOOSING TO BUY A RESPONSIBLE PRODUCT VERSUS A CONVENTIONAL PRODUCT YOU ARE GOING TO MAKE CHANGE.</p>

Voice / Narration

AUDIO

<p>01:28:45 LUKUS EICHMANN</p> <p>01:28:54 MA JUN</p>	<p>BUT I THINK IT'S OUR JOB AS A BRAND AND THE COMMUNITY OF DESIGNERS AND BRANDS THAT EXIST TO HELP EDUCATE CONSUMERS.</p> <p>I DON'T THINK ANY CONSUMERS IF THEY KNOW ABOUT WHAT IS GOING ON IN OUR RIVERS AND THEY KNOW ALL THIS IMPACT ON THE LOCAL COMMUNITIES SOMETIMES THE VERY SERIOUS HEALTH IMPACT. I DONT THINK THEIR GOING TO CONTINUE TO BE SILENT I THINK THEY WILL YOU KNOW I HOPE THAT THEY WILL USE THEIR BUYING POWER TO TRY TO INFLUENCE THE FACTORIES AND ALSO ESPECIALLY THE BRANDS, THE BRANDS, AND THROUGH THEM TO TRY TO PUSH THEM PRESSURE THEM TO BRING THEIR SUPPLY CHAIN I THINK THAT'S DOABLE.</p>
<p>01:29:27 KUMI NAIDOO</p>	<p>THE ONLY THING WE WOULD SAY JUST TO GET THE HISTORICAL RECORD RIGHT WE HAVE NEVER REALLY GONE AFTER A COMPANY BEFORE ASKING THEM POLITELY THROUGH REPORTS THROUGH MEETINGS TO CHANGE, IN THOSE MEETING GENERALLY THE CEO'S WOULD SAY YOU KNOW OF COURSE WE AGREE WITH WHAT GREENPEACE IS SAYING WERE WORKING ON IT, HERE'S A THICK PLAN OF OUR ENVIRONMENTAL SUSTAINBILITY APPROACH AND SO ON AND SO FORTH. BUT THEN WHAT WE FIND IS ONCE THEY GET BACK INTO THEIR DAY TO DAY JOB THEY SLIP BACK INTO A BUSINESS AS</p>



Voice / Narration

AUDIO

	<p>USUAL APPROACH THERE IS NO URGENCY IF ANYTHING THE BEST THEY ARE DOING IS BABY STEPS IN THE RIGHT DIRECTION AND WE WANT THEM NOT TO JUST DO SOME BOLLY GREENWASHING THINGS WE WANT THEM TO ACTUALLY MAKE THE CHANGES THAT ULTIMATELY IS GOING TO BE GOOD FOR THE ENVIRONMENT AND GOOD FOR THE LONG TERM SUSTAINABILITY OF THEIR BUSINESS.</p>
<p>01:30:23 LUGI CACCIA</p>	<p>IN 2025 THE NEED OF THE WATER FOR HUMAN WILL BE DOUBLE. BUT EVERYDAY WE ARE KILLING THE WATER FOR STUPID STUFF LIKE A PAIR OF BLUE JEANS.</p>
<p>01:30:32 ORSOLA DE CASTRO</p>	<p>THE FUTURE OF THE FASHION AND THE TEXTILE INDUSTRY OVER THE NEXT IMMEDIATE FEW YEARS WILL BE LOOKING AT TRANSPARENCY, TRACABILITY, TOXICITY AND TEXTILE WASTE SO IT ALL STARTS WITH A T, EASY TO REMEMBER YOU KNOW LET'S DO SOMETHING ABOUT IT PRETTY QUICKLY.</p>
<p>01:31:08 MARK ANGELO</p>	<p>I THINK ALL CORPORATIONS HAVE TO BE ACCOUNTABLE FOR THEIR ENVIRONMENTAL PRACTICES AND NO ONE HAS A RIGHT TO DAMGE OR DESTROY A RIVER. SO I DO THINK MORE WITHIN THE TEXTILE SECTOR HAVE TO COMMIT, TRULY COMMIT TO A FASHION INDUSTRY WITHOUT POLLUTION. I ALSO THINK IN THE END THE CONSUMER HAS A LOT OF POWER AND IF MORE AND MORE OF US SOT OUT</p>

## Voice / Narration

## AUDIO

	CLOTHING THAT WAS MADE IN AN ENVIRONMENTALLY FRIENDLY MANNER THAT WOULD GO A LONG WAY TO IMPROVE THINGS AS WELL.
01:31:46 FONT UP	SINCE THE GREENPEACE DETOX PROGRAM STARTED TWENTY GLOBAL FASHION LEADERS HAVE COMITTED TO DETOX. NIKE, ADDIDAS, PUMA, G-STAR, VALENTINO, COOP, H&M, M&S, C&A LI-NING, ZARA, MANGO, ESPIRIT, LEVI'S, UNIGLO, BENETTON, VICTORIA'S SECRET, CANEPA, BURBERRY AND PRIMART.
FONT UP	HUNDREDS OF GLOBAL FASHION BRANDS CONTINUE TO EMPLOY TOXIC MANUFACTURING METHODS THAT ARE HARMFUL TO PEOPLE AND DESTRUCTIVE TO THE ENVIRONMENT.
FONT UP	CAN FASHION SAVE THE PLANET?
CREDITS	