POLYINFORM
Providing industrial and environmental safety

We make the world ecologically sound!
COMPANY OVERVIEW

Joint-Stock Company POLYINFORM acts in the area of providing industrial and environmental safety since 1989. Now the company is one of the biggest Russian companies executing especially important works in the sphere of environmental protection and the main activities are:

- Recultivation and bioremediation of soil and oil spills response;
- Disposal of hazardous waste
- Sewage treatment
- Designing and construction of sites for domestic and industrial waste processing;
- Cleaning of reservoirs and pipelines, heat networks and drainage systems;
- Decontamination of ground water, water surface and coastal area polluted by oil and petroleum products;
- Water treatment and purification;
- Dredging works, hydro technical structuring;
- Pipelines inspection, reservoirs and other constructions diagnostics;
- Rehabilitation of dumps territory.

POLYINFORM has highly qualified staff including 7 doctors of sciences, the high education level of whom allows solving any problem. Company has well equipped technical and microbiological labs, industrial base, including: pumps, equipment for cleaning and technical diagnostics of the pipelines, for oil and oil products gathering (skimmers), hydrodynamic techniques for the tanks cleaning, cleaning the outer water pipes and mini technique.

The unique bioremediation technology Soilex® designed and applied by POLYINFORM includes an original method of environment treatment. The technical decisions which are an essence of technology (mode of production of biological products, the way of their reception) are protected by 15 patents of the Russian Federation. Applying of Soilex® bio-technology allows treatment of oil polluted soil and water both in-situ and at the special site if necessary.

The biotechnology Soilex® developed by POLYINFORM was included in the corresponding paragraphs of Tuapse Refinery reconstruction project and received as a part of the project positive expertise conclusion as the technology recommended for oil polluted soil and water treatment.

While working POLYINFORM made remediation of more than 250 ha of oil-products contaminated areas, disposed more than 180 000 m³ of oil sludge and oily soil, treated more than 85 000 m² of water surface, eliminated aftermaths of accidental spills of more than 120 000 tons of oil products in 17 regions of Russian federation for such organizations as: Ministry of Defense of the Russian Federation; Ministry of the Natural Resources, Ministry of Emergency and for such large Russian enterprises as: "Gazprom" Corp., "Lukoil" Oil Company; "Transneft" Corp; "Diamonds of Russia-Sakha" Co. Ltd; "TNK-BP" Corp; "Moscow Oil Refinery" Corp; "Rosneft" Corp; Russian Open Society "United Power Systems of Russia"; JSC "Russian Railways as well as for such foreign companies as "Halliburton " (USA); "Total Fina Elf" (France); "Mahrutak" (Syria); USAID (USA); Unilever SNG (Great Britain); NKK Corporation (Japan).
RECOLTIVATION AND BIOREMEDIATION OF SOIL

For recultivation and bioremediation of the oil polluted soil POLYINFORM has developed and patented the unique biotechnology Soilex®, which means using bio preparations of different purpose.

Advantages of the technology:

- Specific associations of stocks-destructors, optimal for any kind of contamination;
- High destructive activity in the wide pH (4,5–8,5) and temperature range (3–40 С);
- Time necessary for decontamination 3-8 months;
- Highly viability effective oil oxidizing activity during the long time (not less than 1,5 year);
- Effectiveness for a broad range of pollutants soil and water remediation
- Possibility of doing away with heavy metals, nitrates, hazardous wastes
- Adapting to necessary aims
- Full rehabilitation of agrobiocenosis on polluted areas

Recultivation of the oil polluted soil is carried out in several stages:

1. The area examination
   Defining of the parameters of the polluted site: geotechnical conditions, microbiological and chemical characteristics of the pollution.

2. Isolation of contamination

3. Area treatment
   Mechanical, sorption and microbiological methods

4. Chemical and microbiological control of the consequences

5. Handing the works to the customer

Each stage is made under the permanent analytical control of the process.

GENERAL CHARACTERISTIC OF Soilex® BIOPREPARATION

The basis of Soilex® biopreparation are aerobian hydrocarbons oxidizing nonpathogenic bacteria sorbed on the ecologically clean inert support.

Constituent microbial association possesses high activity relative to some hydrocarbons (crude oil, diesel fuel, technical oils, heavy oil and mazut fractions) in the wide pH (4,5–8,2) range.

Soilex® biopreparations includes vegetative bacteria’ cells related to mesophilic bacterium (maximum activity under high positive temperature 10-40С) and psychrophilic organisms (maximum activity under low positive temperature 3-10С). This provides wide temperature range of biopreparation activity. Also biopreparation includes nutrient medium debris, biogenic salts and inert support.

The titer of viable microorganisms cells not less than 1 x 10^10 cells in 1 g of biopreparations.

Visually the preparation is friable powder of dark-brown color without characteristic odor.

The preparation is non-toxic, has no carcinogenic and cumulative effect, fire and explosive safe, and belongs to IV hazard class.

The preparation must be stored in hermetic plastic sachet under the temperature from -200С to +30С. That provides saving of the titer of viable cells.

The warranty working life of the dry form of Soilex® biopreparation is one year.

There is no need in special preparation of Soilex® biopreparation before soil and wa-
RESULTS OF OIL-CONTAMINATED SOIL TREATMENT BY Soilex® BIOTECHNOLOGY

<table>
<thead>
<tr>
<th>Name of fuel</th>
<th>Oil products concentration, g/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>initial</td>
</tr>
<tr>
<td>Diesel fuel</td>
<td>5.0</td>
</tr>
<tr>
<td>Benzine</td>
<td>3.0</td>
</tr>
<tr>
<td>Technical oil</td>
<td>12.0</td>
</tr>
<tr>
<td>Black oil</td>
<td>16.0</td>
</tr>
</tbody>
</table>
EXAMPLES OF EXECUTED PROJECTS:

OBJECT: Ujta railway station (contractor – JSC "Russian railways")
SCOPE OF WORK: Recultivation and bioremediation of oil-polluted soil on the site of 6 hectares
DURATION: 15.05.1994 - 30.10.1994

OBJECT: “DIAMONDS of RUSSIA - SAKHA” Co. Ltd.
SCOPE OF WORK: treatment of 15 000 m2 of oil contaminated soil and water surface

OBJECT: “Gazpromneft-Hantos” Ltd
SCOPE OF WORK: Recultivation and bioremediation of 6.8 hectares of oil-polluted soil
DURATION: 10.08.2007 – 15.09.2008

Before the treatment
After the treatment
LIQUIDATION OF ACCIDENTAL OIL SPILLS
Accidental spills of oil and mineral oil make high impact on the environment, causing fast response. Therefore the time factor at localization and liquidations of accidental spills has crucial importance. When measures are taken insufficiently quickly and effectively, the pollution zone greatly increases, and its consequences are shown in the greater degree.

JSC POLYINFORM implements the full complex of works on liquidations of accidental spills including:

- Spill localization
- Gathering the spilled products with the help of technical equipment and sorbents and removing it to the recultivation site for further processing
- Processing of gathered products at special yards
- Decontamination of surface and ground water and installation of local treatment facilities if necessary
- Liquidation of the residual contamination at the place
- Approving the results by the environmental Authorities

The company has fully equipped specialized teams with many years experience in execution of these works. The choice of the oil spill response strategy depends on the terrain, the nature and extent of oil spills, climatic conditions, availability of water courses, etc., which should be taken into account when carrying out the liquidation work.

The localization of the spill is carried out by special equipment: sorbents and sorption materials made of natural and artificial substances, emergency booms, floating booms, ballast booms as well as under ice booms.

For removing oil from water surface skimmers – oil boats are used. Raking of the contaminated layer is made by bulldozers, excavators, machines and tractors, equipped for oil gathering.

The contaminated soil is then placed at the recultivation site, or, in case of favorable hydro-geological conditions, the biological treatment of the oil contaminated soil can be made in-situ.

Bioremediation of contaminated soil and water is made according the developed complex biotechnology Soilex®, which includes both - the special cleaning methods and own biopreparations Soilex® which are produced at the companies own production line.
EXAMPLES OF EXECUTED PROJECTS:

OBJECT: “Diamonds of Russia – Sakha”, River Lena
SCOPE OF WORK: Liquidation of the accidental oil spill at the square of 15000 m², preventing of river contamination
DURATION: 30.05.2003-30.11.2003

Before the treatment
Construction of the yard
After the treatment

OBJECT: Koptevskij open pit near Uljanovsk (contractor – JSC "Russian railways")
SCOPE OF WORK: Construction of the recultivation yard and bioremediation of soil oil-polluted by the accidental split of 50 000 tons of oil

OBJECT: “Gazpromneft-Hantos” Ltd
SCOPE OF WORK: Liquidation of oil pipeline’s break. The square of contamination was more than 3.5.
DURATION: 10.05.2001 – 15.09.2002

Before the treatment
After the first stage of the treatment – processing with the floating form of Soilex®
After the treatment
DISPOSAL OF HAZARDOUS WASTE

POLYINFORM offers performance of complex services on hazard industrial and domestic waste management, including processing and reception on disposal of debris and contaminated soil, as well as recycling of petrol-containing waste (oil sludge) and cleaning of sludge collectors.

POLYINFORM has the license №ОП-19-000213 (78) on solid waste of I-V hazard class treatment in the part of their collecting, transporting, disposal, recycling and storage.

The specialists of the company have created the bioelectrical technology of soil treatment from heavy metal pollution including mercury that makes it possible to make the concentration of the ecologically dangerous substances in the soil lower, according to the safety norms.

POLYINFORM also possesses its own stationary recultivation site, allowing us to dispose more than 1000 tons of industrial wastes annually, installations on recycling various kinds of oil sludge, the wooden cross-ties treated by antiseptics (creosote, coal or slate oil, bitumen pastes). We also have the experimental installation for bio-waste (food, chicken manure, dung etc) processing with the receiving of heat and fertilizers.

Construction waste (broken bricks, concrete, etc.) can be accepted for recycling for further use (land filling of roads, reclamation of landfills).
EXAMPLES OF EXECUTED PROJECTS:

OBJECT: The recultivation site of locomotive depot at Dno railway station (contractor – JSC "Russian railways")
SCOPE OF WORK: Construction of the recultivation yard and bioremediation of 1680 t of black-oil contaminated soil from the train crash at the station-to-station block Zubcov-Aristovo

OBJECT: “Moscow oil refining plant” Corp
SCOPE OF WORK: Disposal 3 000 tons of oil sludge

OBJECT: Saratov RNU (OAO «TRANSNEFT»)
SCOPE OF WORK: Disposal of oil contamination at the square of 3.5 hectares, construction of the yard for recultivation and remediation of soil
DURATION: 15.08.2003 – 30.10.2004

OBJECT: «Kovdor ore-dressing and processing enterprise» Corp (Kovdor)
SCOPE OF WORK: Removing and disposal of 120 tons of oily waste of III – IV hazard class
DURATION: 01.09.2007 - 25.03.2007

OBJECT: “PTK” Ltd (St-Petersburg)
scope of work: Disposal of 3 000 tons of hazardous industrial waste
DURATION: 01.01.1999 - 31.12.2007
SEWAGE TREATMENT, RECONSTRUCTION OF TREATMENT PLANTS

JSC “POLYINFORM” offers complex solution of the problem of sewage treatment both industrial and domestic. Thanks to high qualification of experts, POLYINFORM can design and install equipment, carry out starting-up and adjustment and provide further service of operating treatment installations of any level.

**Domestic sewage:**
- The traditional stages of treatment are used – both mechanical and biological.
- The after-purification is carried out by means of ultraviolet, which leads to stabilization of purified water characteristics during all operation life of equipment.

**Rain and snow water treatment:**
- The treatment of sewage from the polluted areas is possible. The water can be reused or thrown into a pond.
- The techniques of electrochemical treatment and filtering without reagents are used.
- There is no need in the expensive consumables.
- The technique can be used in complex treatment systems as the system of after-purification.

**Industrial sewage and water from the polluted areas treatment:**
- Allow treating:
  - Sewage from the ions of the heavy metals;
  - Surface flow from the processing sites of domestic and industrial waste.
- Allow partly refusing of using reagents;
- Allow organizing the reverse water supplying.

For oil-contaminated sewage treatment **complex biotechnology Soilex®** is used.

**The main principle of all equipment operating:**
- Using the reverse water supplying;
- Easy and safe exploitation;
- Does not need permanent maintenance staff;
- Low power consumption and operating costs;
- No chemical reagents.

The technology of the **reverse water supplying** allows lowing water consumption up to 90%, installation at the sites not equipped with a drainage system and water nets.

**POLYINFORM** uses only the high-quality equipment of leading Russian and world manufacturers having all necessary certificates.
EXAMPLES OF EXECUTED PROJECTS:

RECONSTRUCTION OF TREATMENT PLANT:

OBJECT: “KONTUR” Corp (town Great Novgorod)
SCOPE OF WORK: major repairs of treatment plant
DURATION: 15.06.2004 - 31.10.2004

TREATMENT PLANT CONSTRUCTION:

OBJECT: water drains near Zubtsov railway station (contractor – JSC "Russian railways")
SCOPE OF WORK: constructing of local treatment plant
DURATION: 03.08.2005 - 31.12.2005

OBJECT: locomotive depot on Sortavala railway station (contractor – JSC "Russian railways")
SCOPE OF WORK: constructing of local treatment plant
DURATION: 01.03.2005 - 31.08.2005

OBJECT: the site for utilization of oil slime (contractor – “Rosneft-Stavropolneftegaz” Ltd)
SCOPE OF WORK: constructing of local treatment installations for the sites sewage treatment
DURATION: 10.03.2009 – 15.11.2010
DESIGNING AND CONSTRUCTION OF SITES FOR DOMESTIC AND INDUSTRIAL WASTE PROCESSING

POLYINFORM offers unique technologies on designing and building of sites for industrial waste recycling.

For maintenance of effective management in sphere of the reference with solid waste, our company is ready to supply solid-waste-processing equipment and to organize manufacture (including sorting and briquetting of solid waste), to organize delivery of technological lines for reception of secondary raw material from waste, to carry out starting up and adjustment and further supplying of the equipment.

For disposal (or temporary warehousing) a hazardous waste we offer complex works on designing and constructing of specialized yards.

For doing away with industrial wastes JSC “POLYINFORM” has developed, built and successfully uses polygons at Locomotive depots of such railway stations as Suojarvi, Sortavala, Petrozavodsk, Medvezhja Gora, Dno, Pskov, Velikiye Luki, Novosokolniki, where annually is planned to clean 7000 tons of industrial wastes with the use of our own patented complex biotechnology Soilex®. For NOVE ENERGO, Ltd the incineration plant in Leningradskaja oblast was designed. Also for “Rosneft-Stavropolneftegaz” Ltd the project of site for utilization of oil slime was designed and in 2010 the construction works were finished.

All projects of polygons and technology have gone through the State expertise in 17 lands of the Russian Federation.

THE SCHEME OF WORK OF SOLID WASTE TREATMENT PLANT (NORTH-WEST OF RUSSIA)
EXAMPLES OF EXECUTED PROJECTS:

OBJECT: locomotive depot of Sortavala railway station (contractor – "Russian railways" Corp)
SCOPE OF WORK: construction of site for recultivation of 215 m³ oil polluted soil
DURATION: 01.06.2005 - 30.09.2005

OBJECT: locomotive depot of Volhovstroj railway station (contractor – "Russian railways" Corp)
SCOPE OF WORK: projecting of site for recultivation of oil polluted soil
DURATION: 15.07.2006 - 20.11.2006

OBJECT: “Rosneft-Stavropolneftegaz” Ltd
SCOPE OF WORK: design of site for processing of 10 000 m³ of oil sludge
DURATION: 15.08.2007 – 25.12.2007

OBJECT: NOVE ENERGO, Ltd
SCOPE OF WORK: The feasibility study (FS) of the Environment for the construction of an incineration plant in Leningrad region

OBJECT: “Rosneft-Stavropolneftegaz” Ltd
SCOPE OF WORK: constructing of site for processing of 10 000 m³ of the oil sludge annually
DURATION: 01.03.2009 – 15.11.2010
Cleansing of reservoirs and pipelines, heat networks and drainage systems

POLYINFORM possesses wide experience in cleaning of oil pipelines and reservoirs with further utilization. For these aims unique techniques and equipment are used allowing working with minimal time and assets losses. POLYINFORM performs full complex of works including design, executing and waste recycling.

Reservoirs and oil pipelines cleaning is made using hydrodynamic and mechanical methods and special technological scheme of work.

The oily waste received as the result of reservoirs and slam storages cleaning are proceeded with the help of complex biotechnology Soilex®

POLYINFORM offers system for large-capacity tanks-storehouses of crude oil and heavy oil fuel cleaning based on a principle of contactless cleaning (exception of work or presence of people inside of reservoir) and made for most difficult for cleaning tanks-storehouses of crude oil and the oil residues as well.

Depending on the task the system allows carrying out cleaning of the tank from bottom sediment only or the complex cleaning, combining cleaning of tank surfaces from black oil, processing and separation slam and extraction of hydrocarbons. This system can be successfully used for tanks with floating roof and with stationary type of a roof as well.

Characteristic difference is also that this is the system of closed boundary, so negative influence on an environment practically comes to naught, and the returning ratio of valuable hydrocarbons achieves almost 100 %.

The application sphere of system is large-capacity tanks (10-150 thousand tons) with such product of storage, as crude oil, heavy oil fuel/ petroleum gas oil, slops.

Examples of executed projects:

OBJECT: «Konakovo hydroelectric power station» Corp (contractor - RAO “UES of Russia”

SCOPE OF WORK: Cleaning of black-oil storehouse(1200 m³) from the 450 m³ of bottom sediment


OBJECT: Yaroslavl heat power plant -1 (contractor - RAO UES of Russia)

SCOPE OF WORK: Cleaning of underground black-oil reservoirs (2000 m³) from the 800 m³ of bottom sediment

DURATION: 15.06.2003 - 30.11.2003

OBJECT: Uhta heat networks (contractor – AEK “Komienerno” Corp)

SCOPE OF WORK: Cleaning of black-oil reservoir from the 400 m³ of bottom sediment

DURATION: 01.07.2004 - 30.10.2004

OBJECT: Petrozavodsk heat power plant -1 (contractor - RAO UES of Russia)

SCOPE OF WORK: Cleaning of black-oil reservoirs (10 000m³) from the 400 m³ of bottom sediment and its following utilization

DURATION: 02.07.2005 – 31.08.2005
DECONTAMINATION OF GROUND WATER, WATER SURFACE AND COASTAL AREA POLLUTED BY OIL PRODUCTS

POLYINFORM implements complex liquidation of ground water and costal area pollution, as well as pond bottom cleaning.

WATER SURFACE DECONTAMINATION INCLUDES:
- bordering the oil spill with booms;
- assessment of pollution and its degree, forecast of diffusion tendency;
- collection of oil with special equipment;
- removal of residual oil layer by applying biological product Soilex®;
- Costal area decontamination.

ADVANTAGES of the technology are following: high decontamination degree, easy and variable used sorbents recycling, no impact on the near bottom and bottom layers, cost effectiveness.

COASTAL AREA DECONTAMINATION

Depending on coastal relief and pollution degree the following works might be performed:
- In-situ remediation by the application of biopreparations in accordance with the Soilex® technology;
- Removal of polluted soil and its treatment at a special remediation site in accordance with the Soilex® technology.

GROUND WATER DECONTAMINATION

The technology, applied by POLYINFORM, allows decontamination not only the water surface, but ground water as well. Soilex® technology includes the full complex of recultivation measures: mechanical, absorbing, microbiological and other methods of elimination and degradation of hazardous substances.

Depending on pollution extent we choose one of the following decontamination:
1. In case of intensive pollution and presence of free oil on water surface the oil layer is removed using special pumps. Then the pollutants are separated and utilized.
2. Liquidation of dissolved petroleum products and emulsions is carried out by means of aeration or applying bio-preparations or by use of sorption.
3. Petroleum products which are adsorbed on ground are liquidated by means of bio-preparations or washing.

We applied this technology at tens of objects in different regions with various climate conditions.
EXAMPLES OF EXECUTED PROJECTS:

OBJECT: station-to-station block Station “791 km” – Shueretskaja, (contractor – JSC "Russian railways")
SCOPE OF WORK: Cleaning and reclamation of water and soil on the site oil-contaminated because of the train crush (240 tons of oil-contaminated soil)
DURATION: 15.07.2003-30.10.2003

Before the treatment  Using of sorbents and bio-preparations  After the cleaning

OBJECT “Savvatia” (contractor – Ministry of Defense of Russia)
SCOPE OF WORK: liquidation of 2500 t oil fuel spill – ground water treatment at the area of 2.5 ha and soil remediation
DURATION: 01.10.2003 - 30.11.2008

Before treatment by Soilex®  After the treatment by Soilex®
POLYINFORM offers performance of a full spectrum of works on technical condition of field and main pipelines diagnostics. For these aims the experts of the company developed unique hardware-software system KMD-01M. The method and the equipment are certificated by the State registry of utility models of the Russian Federation (9 patents).

Contactless magnetometric method has following advantages:

- **Does not require preliminary preparation** for examination (cleaning, calibration etc) and changing or stopping products transportation mode;
- **Can be used for the pipelines not ready for in-tube(smart-pig) defectoscopy**;
- **No magnetization required**, so welding works are permissible.
- **Defines defects in “on-line” mode** (including stressed-deformed states, geometry defects, different types of corrosion, etc) and **accurate provides their linking to a pipeline**;
- **Is not limited by constructive options** of pipelines (angles of bends, lifts, width of walls, etc);
- **Can be used at the stage of construction** for control of the quality of pipelines’ laying;
- **Comfortable to organize monitoring** of the technical state of pipelines aiming control of dynamics of pipelines’ defects development;
- **Allows automatic tracing** with **electronic maps** of anomaly designing, including water crossings.
- **Provides high efficiency** of inspection (up to 20 km daily per 1 shift).

By the customer request the places where the additional control should be made are determined and recommendations for the further safe operation of surveyed objects can be developed on the basis of the received data.

**The advantages** of the inspection using system KMD-01M comparing with other devices realizing magnetometric principle of diagnostics:

- Realization of the principle of **gradiometry**, giving high **sensitivity** and **selectivity** of the diagnosis;
- Using of nano-size magnetic filed sensors provides **velocity** and **noise immunity** making it possible to execute diagnostics near power cables, power lines, etc.
- **High accuracy** of the defined defects (up to 93%);
- **Low cost of the service**.

The system can be installed on different vehicles: automobiles, boats, aircraft or submersibles.

All works are carried out by the qualified experts of the high level having the sanctions and certificates on given kinds of works. POLYINFORM possesses License of the federal Agency on Ecological, technical and Nuclear Supervision of Russia № ДЭ-00-011-717 (Д) 02.07.10 on the activity on executing of expertise of industrial safety of the technical objects, buildings and constructions, used for the dangerous industrial objects. The applied system KMD-01M in addition to 9 patents, has a Certificate of Federal Agency for Technical Regulation and Metrology № 8018/1 dated 14.05.2005 where «System KMD-01M is certified by State Standard of Russia as the measuring tool № 19694-00 ».

* Direct analogues of the system DOES NOT EXIST
EXAMPLES OF EXECUTED PROJECTS:

OBJECT: Syrian company for storage and distribution of petroleum products (MAH-RUKAT)
SCOPE OF WORK: cleaning and inspection of 6" pipelines Homs-Aleppo and Homs-Addra (356 km)
DURATION: 21.09.2004 – 03.05.2005

OBJECT: main gas pipeline AO "Intergaz Central Asia" (Kazakhstan)
SCOPE OF WORK: Test inspection of the pipeline with the system of magnetometric diagnostics KMD-01M

OBJECT: field and gas gathering pipelines Oil Company «Lukoil - West Siberia»
SCOPE OF WORK: inspection of pipelines via NDT (nondestructive testing) methods with the help of magnetometric device KMD-01M
DURATION: 18.08.2010 – 08.10.2010

OBJECT: Gas pumping stations near towns of Volhov, Rzhev, Smolensk (diameters of pipes 1020 mm), OAO “Gazprom”
SCOPE OF WORK: Diagnostics of the input and output pipeline of gas pumping stations with the help of magnetometric diagnostic system KMD-01M
DURATION: 14.06.2011 – 17.06.2011

OBJECT: «Lukoil – West Siberia»
SCOPE OF WORK: Contactless magnetometric inspection and safety expertise of file and main oil pipelines, 150 km

OBJECT: «CNPC», China
SCOPE OF WORK: Pilot project on the testing of the contactless magnetometric method of pipelines inspection using KMD-01M at the main gas pipeline (Ø 610 mm)

OBJECT: OOO «Ukateks-Ugra»
SCOPE OF WORK: Technical inspection by magnetometric method and industrial safety expertise of the filed pipelines, and диагностирование магнитометрическим методом и экспертиза промышленной безопасности нефтепромысловых трубопроводов, 51 km
DURATION: 23.04.2013 – 08.05.2013
DREDGING WORKS, RESERVOIRS CLEANING, HYDROTECHNICAL STRUCTURING

With use of long experience, highly qualified personnel and current technology POLYINFORM in cooperation with foreign partners is ready to accomplish tasks of any complexity in the following fields:

- dredging works;
- rivers, lakes and other reservoirs cleaning;
- hydrotechnical building.

According to the set task, a requisite multifunctional technical complex completed with highly qualified experts, will be formed with techniques that allow performing necessary works qualified and in a short space of time. For carrying out dredging works modern structural and special techniques (multibucket excavators, pontoons with hydroexcavators and other heavy equipment) are used.

CLEANING OF WATER PONDS FROM THE BOTTOM SEDIMENTS

The cleaning is carried out in complex – both by mechanical and biological methods. For cleaning of the oil-polluted water the special hinged or windlass equipment is used. It allows freeing the bottom of a water pond from the heavy oil fractions. Then the biopreparation Soilex AQUA® is used in assemble with the intensive aeration of the water pond.

Sanitation of the water ponds bottom is hold by mechanical cleaning with the help of various boats and windlass equipment depending on the size of the water pond and structure of the contaminations. All used in this technology biopreparations and sor-bets have all necessary licenses and patents. This kind of works has been executed dozens of times on different objects in various regions with different climatic conditions.

In March, 2008 POLYINFORM has won the tender for executing of government works on «Cleaning of small rivers and canals of Saint-Petersburg form bottom sediments». Executing the works on this contract POLYINFORM performed dredging works and worked on removing of submerged objects and tree trunks. Engineers of the company lifted up more than 15 000 items and took out more than 30 000 cubic meters of bottom soil.

EXAMPLES OF THE MAIN EXECUTED PROJECTS:

OBJECT: Ohta and Okkervil rivers (the customer – Committee of nature management of the Administration of Saint-Petersburg)

THE SCOPE OF WORKS: cleaning of rivers form bottom sediments, dredging works

DURATION: 01.05.2008 – 15.12.2008
REHABILITATION OF DUMPS TERRITORY

POLYINFORM offers complex solution of the problem of rehabilitation of territory of dumps and its preparation for commercial construction

The works consist of several stages.

1. **EXPLORING** of engineering-geological and hydro-geological conditions of a site of construction, detecting toxicants, defining morphological structure of waste, and finding an initial data for development of the project and detailed planning of works. It’s also necessary to define a deposition of waste, a proportion between industrial and domestic waste.

2. **LIQUIDATION OF METHANE AND OTHER GASES EMISSION.**

For the termination of processes of gaseous emissions leading to different gases pollutions we suggest to remove water from horizon on which waste are located. Absence of water in the dump’s strata will stop anaerobic processes. For disposal of water we suggest to dig a trench, with depth will be essentially below the waste’s disposition level. Such trench averts leaking of fresh water (rain-water, subterranean waters) from the surrounding territories and allows moving off excess moisture from the territory of the dump. The depth and the location of the trenches will be defined from the geological conditions existing on a place, on the basis of data received at a drilling of prospecting holes. Without of water the processes of emissions of gaseous products of anaerobic reactions will stop.

3. **CLEANING CONTAMINATED GROUND WATER.**

For exception of secondary contamination of surrounding territories, a whole complex of measures on water Cleaning is required. Water from trenches is collected in a special well, whence (in process of filling out) it is pumped up to the biological Cleaning construction built on the territory of a dump. The biologically cleaned water can be used for watering the trees, plants and agriculture. Incoming of water because of drying up the territory lasts for a short period (less then 1 year). Further the sewage disposal plant can be included in the cleaning system of sewerage or sewage of the project area.

4. **SANITATION OF THE TERRITORY.**

The installation of plant for preparing of sanifying solution and equipment for putting in the solution are made on the territory near the damp. Sanifying solution is putting in layers of waste. The solution can move on existing pipes for tap of gases, but drilling additional holes is possible if necessary. Getting into layers of the waste, sanifying solution destroys the bacterial environment, it is the way it stops processes of decomposition of organic waste. The spent solution gets in the trench and a collecting well. The fat sanifying solution is pumped out from the well to the special collection. Further it can be modified and repeatedly used (about 3-5 times).

5. **THE LITHIFICATION.**

After the sanitation the stage of lithification (putting in cementing solution) begins. Lithification is made for creation waterproof capsules and formation stable cellular structure of soil. After planning the territory of the waste area we perform holes boring to pump the lithification solution into the wastes. Using the potential chemic energy of the wastes and cementitious compound of the solution together with wastes create a chemically active structure with high sorption capacity. That is how the bounding of toxicants and decontamination of wastes which are highly toxic. In the meantime, while the toxicants are being bounded, their cleaning is happening with the help of alkali cleavage of the microbiological components of the wastes. That is why the soil after the work is ecologically safe and is ready to be used for building.
CONSTRUCTION OF INDUSTRIAL FACILITIES

Since 2000 POLYINFORM works in the field of constructing of objects of the fuel and energy complex.

KINDS OF ACTIVITY:

- Quarrying and supply of aggregates - sand, gravel, sand-gravel mix;
- Designing and construction of industrial objects as well as environment protection objects;
- Disposal of industrial and construction waste of I – IV risk classes;
- Environment safety monitoring;
- Expertise of industrial safety of pipelines and reservoirs.

All works passed through State ecological examination of the Ministry of Natural Resources and its regional committees.

INDUSTRIAL BASE:

The company has well equipped industrial base according to the highest modern technological standards and includes:

- civil and highway engineering;
- machines and mechanisms certified by Russian engineering supervision,
- equipment for cleaning and technical inspection of pipelines,
- equipment for gathering of oil (skimmers),
- pumps,
- stationary recultivation site, allowing disposing more than 1000 m³ of industrial wastes annually;
- installations for processing of different kinds of oil sludge, associated gas and biowaste;
- Producing, chemical and microbiological labs;
- Warehouses.

Completion of the construction is carried out according to a report card equipment, with quality and reliable construction equipment last certified.

LICENSES and CERTIFICATES

Federal Service for ecological, technological and nuclear control, License №ОП-19-000213 (78) on realization of activities on collecting, using, disposal , transportation, placing of hazardous waste, 16.07.2010

Federal Service for Supervision of the protection of cultural heritage law compliance, License № POK 00613 on realization of activities on the restoration of the cultural heritage objects (monuments), 17.04.2009

The self-regulating organization Non-Commercial Partnership "The Baltic association of designers", Certificate № 0577-2009-78161187545-02 on admission to work on preparation of project documents, which have an impact on the safety of capital construction, 23.12.2009

The self-regulating organization Non- Commercial Partnership "The Baltic Constructing Complex", Certificate № 0577-2009-78161187545-02 on admission to the works that have an impact on the safety of capital construction, 30.12.2009

NP, «Regional Engineering and Surveying Association», Certificate of admission to the works that have an impact on the safety of capital construction № 0121-FROM-2010-7816118754-01, 26.03.2010
EXAMPLES OF MAIN EXECUTED PROJECTS

CONTRACTOR: “PTK-Terminal” Ltd  
SCOPE OF WORK: Constructing of oil loading racks  
DURATION: March – December 2005

CONTRACTOR: Administration of Saint-Petersburg  
SCOPE OF WORK: Construction of encircling highway with the length of 4,214 km (together with “Vozrojdenie’ Ltd)  
DURATION: July – December 2006

CONTRACTOR: Administration of Saint-Petersburg  
SCOPE OF WORK: Delivery of non-metallic materials for construction of encircling highway at the crossroad of Tallinn and Volhonskoe roads  
DURATION: October – December 2009

CONTRACTOR: Administration of Saint-Petersburg  
SCOPE OF WORK: Delivery of non-metallic materials for construction of encircling highway at the crossroad in Lomonosovky district  
DURATION: February – August 2009

CONTRACTOR: Administration of Saint-Petersburg  
SCOPE OF WORK: removal of soil in the Nevsky district of St. Petersburg  
DURATION: February – March 2011

CONTRACTOR: «MegaMade» (Saint-Petersburg)  
SCOPE OF WORK: Recultivation and preparation of sites for residential construction in Nevsky district of St. Petersburg, a total square of 50,000 m2  
DURATION: September, 2012 – in progress
### LIST OF MAIN PROJECTS EXECUTED BY POLYINFORM IN 1994 - 2013

<table>
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<tr>
<th>№</th>
<th>Contractor</th>
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<th>Scope of work</th>
<th>Duration started</th>
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<tr>
<td>1</td>
<td>JSC &quot;Russian railways&quot;</td>
<td>Ujta railway station</td>
<td>Remediation and recultivation of oil-polluted soil at the site of 8 hectares</td>
<td>15.05.1994</td>
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<td>2</td>
<td>JSC &quot;Russian railways&quot;, Vitebsk branch</td>
<td>Locomotive depot at Dno railway station</td>
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<td>15.10.1998</td>
<td>30.12.2006</td>
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<td>3</td>
<td>JSC &quot;Russian railways&quot;, Kuibyshev branch</td>
<td>Koptevskij open pit near Ulyanovsk</td>
<td>Recultivation and bioremediation of soil oil-polluted by the accidental split of 80000 tons of oil</td>
<td>30.12.1998</td>
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<td>4</td>
<td>“PTK” Ltd</td>
<td>&quot;PTK” Ltd (St.-Petersburg)</td>
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<td>JSC &quot;Russian railways&quot;, Vitebsk branch</td>
<td>Locomotive depot at Velikie Luki railway station</td>
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<td>6</td>
<td>JSC &quot;Russian railways&quot;, Petrozavodsk branch</td>
<td>Locomotive depot of Suojarvi railway station</td>
<td>Processing of oil-contaminated soil (2500 m³) on the recultivation site (1800m²)</td>
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<td>7</td>
<td>TOTALFINAELF Exploring Engineering Russia</td>
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<td>Disposal of 480 tons of hazardous chemical waste</td>
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<td>NK «UKOS» «Samara-nefteproduct» Corp</td>
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<td>Decontamination of ground water on the territory of petroleum storage depot (11 hectares)</td>
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<td>9</td>
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<td>«Konakovo hydroelectric power station» Corp (Konakovo)</td>
<td>Cleaning of black-oil storehouse (1200 m³) from the 670 m³ of bottom sediment</td>
<td>15.07.2000</td>
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<td>10</td>
<td>«Rossevernefteservice» Corp</td>
<td>«Rossevernefteservice» Corp (Arhangelsk)</td>
<td>Cleaning of oil slime storage (more than 2000 tons)</td>
<td>01.03.2002</td>
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<td>11</td>
<td>“Moscow oil refining plant” Corp</td>
<td>“Moscow oil refining plant” Corp (Moscow)</td>
<td>Construction of the site for disposal of 3800 tons of oil sludge</td>
<td>01.09.2002</td>
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<td>12</td>
<td>«TNK-BP» Corp.</td>
<td>«Orenburgneft» Corp. (Orenburg)</td>
<td>Liquidation of slime barns and recultivation of contaminated soil (2600 m³)</td>
<td>01.02.2003</td>
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<td>13</td>
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<td>Locomotive depot of Medvezhya gora railway station</td>
<td>Processing of oil-contaminated soil (2000 m³) on the recultivation site (1800 m²)</td>
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<td>14</td>
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<td>01.05.2003</td>
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<td>15</td>
<td>RAO «UES of Russia»</td>
<td>«Lenenergo» Corp (St.-Petersburg)</td>
<td>Pumping out of liquid oily waste, excavation of oil slime, their transportation and utilization, cleaning of black-oil reservoirs from bottom sediment (total 2900 tons)</td>
<td>21.05.2003</td>
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<td>16</td>
<td>RAO «UES of Russia»</td>
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<td>17</td>
<td>JSC &quot;Russian railways&quot;, Petrozavodsk branch</td>
<td>station-to-station block Station “791 km” – Shueretskaya</td>
<td>Decontamination and recultivation of water and soil on the site oil- contaminated because of the train crush (240 tons of oil-contaminated soil)</td>
<td>15.07.2003</td>
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<td>18</td>
<td>&quot;Transneft&quot; Corp.</td>
<td>&quot;Privolzhskie trunk oil-pipelines&quot; Corp (Saratov)</td>
<td>Remediation of oil-contaminated sites (3,9 hectares)</td>
<td>15.08.2003</td>
<td>30.10.2004</td>
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### Examples of executed projects

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<td>«Heat network», Puskino, Moskow oblast</td>
<td>«Heat network» (Puskino, Moskow oblast)</td>
<td>Liquidation of accidental black-oil split on the boiler plant (150 m³ of liquid waste and 430 m³ of soil)</td>
<td>01.09.2003 30.11.2003</td>
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<td>20</td>
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<td>Object “Pribylovo” (Leningradskaja oblast)</td>
<td>Liquidation of contamination of groundwater on the site of 3,4 hectares and recultivation of 420 tons of polluted soil</td>
<td>01.10.2003 30.08.2006</td>
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<td>21</td>
<td>Ministry of Defense of Russia</td>
<td>Object “Savvatija” (Archangelskaja oblast)</td>
<td>Liquidation of contamination of groundwater on the site of 2,5 hectares and recultivation of polluted soil (accidental split of 2800 tons of oil)</td>
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<td>22</td>
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<td>Object &quot;Kozelsk” (Kaluzhskaja oblast)</td>
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<td>23</td>
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<td>24</td>
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<td>Konakovskaja hydroelectric plant (Konakovo)</td>
<td>Processing of oil-contaminated soil (750 tons) on the recultivation site</td>
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<td>JSC &quot;Russian railways”, Petrozavodsk branch</td>
<td>Locomotive depot of Petrozavodsk railway station</td>
<td>Disposal of oil-contaminated soil (2500 m³) on the recultivation site (1900m³)</td>
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<td>26</td>
<td>JSC &quot;Russian railways”, Petrozavodsk branch</td>
<td>Petrozavodsk railway station</td>
<td>Reception on disposal oil-contaminated waste (more than 1900 tons)</td>
<td>01.05.2004 01.04.2007</td>
</tr>
</tbody>
</table>

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<td>Kirishskaja PPS (Kirishi)</td>
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<td>“KONTUR” Corp (Great Novgorod)</td>
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<td>29</td>
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<td>Diagnostics of two black-oil reservoirs (10000m³ each)</td>
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<td>Ulhta heat networks (Ulhta)</td>
<td>Cleaning of black-oil reservoir from the 480 m³ of bottom sediment</td>
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<td>31</td>
<td>«Lobnenskaja heat network»</td>
<td>«Lobnenskaja heat network» (Lobno)</td>
<td>Decontamination of the territory of the boiler plant from the black-oil contaminated waste (1780 m³) with their further Utilization</td>
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<td>«Saratovneftegaz» Corp.</td>
<td>«Saratovneftegaz» Corp. (Saratov)</td>
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<td>33</td>
<td>The Syrian company for storage and distribution of petroleum products (MAH-RUKAT)</td>
<td>Syria</td>
<td>Cleaning and inspection of 6-inches pipelines Homs-Aleppo and Homs-Addra (356 km)</td>
<td>21.09.2004</td>
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<td>34</td>
<td>«Krov-Oil» Inc.</td>
<td>Kirovsky plant (St-Petersburg)</td>
<td>Treatment of oil-contaminated territory of the plant (180 m³ of soil)</td>
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<td>JSC &quot;Russian railways&quot;, Petrozavodsk branch</td>
<td>Sortavala railway station</td>
<td>Constructing of local treatment plant</td>
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<td>36</td>
<td>State Unitary Enterprise &quot;Thermal Power Station St-Petersburg&quot;</td>
<td>State Unitary Enterprise &quot;Thermal Power Station St-Petersburg&quot;</td>
<td>Removing, transporting and disposal of oily waste (3700 tons)</td>
<td>20.05.2005</td>
<td>15.10.2007</td>
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<td>37</td>
<td>JSC &quot;Russian railways&quot;, Petrozavodsk branch</td>
<td>Belomorsk railway station</td>
<td>Removing of tanks (2 tanks 60 m³ each) with black oil fuel (92 tons of slime) and its disposal.</td>
<td>27.05.2005</td>
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<td>Locomotive depot of Sortavala railway station</td>
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<td>JSC &quot;Russian railways&quot;, Volhovstroj branch</td>
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<td>Recultivation and remediation of oil-polluted site (total 4600 m³ of soil)</td>
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<td>RAO UES of Russia</td>
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<td>41</td>
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<td>JSC &quot;Russian railways&quot;, Volhovstroj branch</td>
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<td>27.02.2007</td>
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<td>54</td>
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LIST OF PATENTS, CERTIFICATES AND LICENSES OF POLYINFORM

1. Certificate № 159409, «POLYINFORM» service mark, the State register of the trade marks 19.12.97
2. Certificate № 159410, «Soilex” trade mark, the State register of the trade marks 19.12.97
3. Certificate № 162746, “Soilex” Trade mark, the State register of the trade marks 31.03.98
4. Certificate № 163656, «POLYINFORM» service mark, the State register of the trade marks 30.04.98
5. Certificate № 163657, service mark, trade mark, the State register of the trade marks 30.04.98
6. Patent for utility model, the State registry of utility models of the Russian Federation, device for determination of the place of damage of the isolation cover of the trunk pipeline
7. Patent for utility model, the State registry of utility models of the Russian Federation, device for determination of the trace, deepness and bend of the trace pipeline
8. Patent for utility model, the State registry of utility models of the Russian Federation, magnetic defectoscope for control of the underground metal pipelines
9. Patent for utility model, the State Service for intellectual property, patents and trademarks of the Russian Federation, magnetic defectoscope for control of the underground metal pipelines
10. Patent for utility model, the State registry of utility models of the Russian Federation, device for contactless detection of the place and existing of the metal pipelines defects
11. Patent for utility model, the State Service for intellectual property, patents and trademarks of the Russian Federation, device for contactless detection of presence and location of the metal pipelines defects
12. State registration certificate of the computer program № 2011610666 «The program for receiving, saving and displaying in real-time mode the data of magnetometric diagnose for system KMD-01M (VIZOR)»;
13. State registration certificate of the computer program № 2011610667 «The program for processing of the data of magnetometric diagnose for system KMD-01M, created by program VIZOR (POSTVIZOR)»;
14. Certificate of Federal Agency for Technical Regulation and Metrology No. POCC RU MH05.H00176 No. 0260596 according to which "System KMD-01M corresponds to the requirements of regulatory documents";
15. The patent for the invention, the Russian agency for patents and trade marks, the method of cleaning soil and water from pollution with oil and oil minerals, the State register of the inventions
16. The patent for the invention the Russian agency for patents and trade marks, the method of purification of the capillary-porous environment from pollution with oil and oil minerals, the State register of the inventions
17. The patent for the invention the Russian agency for patents and trade marks, the method of purification the capillary-porous environment from pollution with oil and oil minerals, the State register of the inventions
18. The patent for the invention the Russian agency for patents and trade marks, the biological product for purification of the environment from oil and oil minerals, the State register of the inventions
19. The patent for the invention the Russian agency for patents and trade marks, the biological product for purification of the environment from oil and oil minerals, the State register of the inventions
20. The patent for the invention the Russian agency for patents and trade marks, the
bacteria Serratia odorifera A 3п ГКМ ВИЗР №99 for oxidation of the Hydrocarbons of oil and oil minerals, Moscow
21. The patent for the invention the Russian agency for patents and trade marks, the bacteria Serratia odorifera A 36 ГКМ ВИЗР №100 for oxidation of the Hydrocarbons of oil and oil minerals, Moscow
22. The patent for the invention the Russian agency for patents and trade marks, the bacteria Serratia ficaria И 3п ГКМ ВИЗР №101 for oxidation of the Hydrocarbons of oil and oil minerals, Moscow
23. The patent for the invention the Russian agency for patents and trade marks, the bacteria Acetobacter pasteurianus АБЗ-2 ГКМ ВИЗР №102 for oxidation of the Hydrocarbons of oil and oil minerals, Moscow
24. The patent for the invention the Russian agency for patents and trade marks, the bacteria Trichodermin lignorum Л-1 ГКМ ВИЗР №103 for oxidation of the Hydrocarbons of oil and oil minerals, Moscow
25. The patent for the invention the Russian agency for patents and trade marks, the bacteria Bacillus cereus В 3п ГКМ ВИЗР №98 for oxidation of the Hydrocarbons of oil and oil minerals, Moscow
26. The patent for the invention the Russian agency for patents and trade marks, the method of purification of soil from oil and oil minerals, the State register of the inventions
27. The patent for the invention the Russian agency for patents and trade marks, the bacteria Burkholderia caryophylli Jap-3 for oxidation of the Polycondensed Aromatic hydrocarbons, the State register of the inventions, Moscow
28. The patent for the invention the Russian agency for patents and trade marks, the bacteria Serratia ficaria Jap-1 for oxidation of the Hydrocarbons of oil and oil minerals, the State register of the inventions, Moscow
29. License of the federal Agency on Ecological, technical and Nuclear Supervision of Russia № ДЭ-00-011-717 (Д) 02.07.10 on the activity on executing of expertise of industrial safety of the technical objects, buildings and constructions, used for the dangerous industrial objects.
30. Federal Service for ecological, technological and nuclear control, License №ОП-19-000213 (78) on realization of activities on collecting, using, disposal, transportation, placing of hazardous waste, 16.07.2010
31. Federal Service for Supervision of the protection of cultural heritage law compliance, License № ПОК 00613 on realization of activities on the restoration of the cultural heritage objects (monuments), 17.04.2009
32. The self-regulating organization Non-Commercial Partnership "The Baltic association of designers", Certificate № 0577-2009-78161187545-02 on admission to work on preparation of project documents, which have an impact on the safety of capital construction, 23.12.2009
33. The self-regulating organization Non-Commercial Partnership "The Baltic Constructing Complex", Certificate № 0577-2009-78161187545-02 on admission to the works that have an impact on the safety of capital construction, 30.12.2009
34. NP, «Regional Engineering and Surveying Association», Certificate of admission to the works that have an impact on the safety of capital construction № 0121-FROM-2010-7816118754-01, 26.03.2010
APPRECIATION LETTERS AND REFERENCES

We reveal our gratefulness to Mr. Valery Saxon whose company JSC POLYINFORM performed brilliant works on remediation of the soil polluted with petroleum products, polyaromatic substances and heavy metals on the territories of NKK Corporation during a pilot project in 2001. As a result the evaluation of the efficacy of the POLYINFORMs SOILEX® biological technology in remediating the industrial-contaminated soil was revealed entirely and it has shown that SOILEX® is the most effective preparation for this kind of works.

Fumikazu Tachiyama
General Manager
3rd November

Certificate of Appreciation

OOO «DIETSMANN TECHNOLOGIES» expresses gratefulness to JSC “POLYINFORM” for effective cooperation in the sphere of Environmental Protection.

JSC “POLYINFORM” performs works for OOO «DIETSMANN TECHNOLOGIES» according to the contract № RU01-SC-05 since 2003. During the this period of time the company has revealed itself as a reliable and competent partner, performing particularly crucial works on utilization and sterilization of hazardous wastes. All the quality works are done in time with the use of modern technologies and according to the demands of Ministry of the Natural Resources of the Russian Federation.

Dietmann Technologies Ltd. Director

Zhavorzuk
OCTOBER 2003
Certificate of Appreciation

This Certificate of Appreciation is presented to JSC POLYINFORM for performing the works ordered by HALLIBURTON under the contract № KH-01-8005 dated 01.01.2001 to a full extent. We reveal gratefulness for the well-timed supply of sorption materials as well as full ecological monitoring of the territory and chemical analysis of the soil and water samples that were performed in 1999-2003. The necessary works were performed in time, and at a very high grade. Work with POLYINFORM has proved the high level of the company and for sure will lead to other cooperation between our companies.

GENERAL DIRECTOR

Lance F. Chik

Ministry of Defense of the Russian Federation

April, 2004

JSC POLYINFORM according to the order of Administration of the Head of Biological Safety of the Military Forces of Russian Federation in 2003-2005 was performing works on liquidation of the oil pollution of soil and underground waters on the territories of Ministry of Defense objects in Koelki, Novaya, Prilozhskaya, (contracts № 0009/3 dated 12.09.03, № 0009/3 dated 19.09.03, № 0009/3 dated 19.09.03) and (contracts № 0009/3 dated 19.09.03, № 0009/3 dated 19.09.03).

The works performed by JSC POLYINFORM included clearing of the territories of liquidation of the oil pollution, their sanitization, cleaning the works on cleaning and recycling of the oil waste areas, cleaning the underground waters.

All the projects were worked out and have passed through concurrence in the Ministry of Natural Resources of Russian Federation in short time (August December 2003.).

The works were done on the needed level and in time, stated in the contract.

Acting as the Head of Biological Safety of the Military Forces of the Russian Federation

A. A. Fadeev
THE RUSSIAN TECHNOLOGY FUND

To whom it may concern:

The Russian Technology Fund is a venture capital fund making direct investments in Russian technology-related enterprises, which exploit innovative technologies on domestic and international markets. Among the main investors in the Fund are: EBRD, IFC, SITRA, other institutional investors and private individuals.

A few years ago experts of the Fund conducted a detailed study of the POLYINFORM company activities and came to the conclusion, that at least at the moment of the study:

- POLYINFORM had a stable financial position and demonstrated good financial results for over 10 years;
- POLYINFORM had highly qualified personnel in the field of development and application of ecological technologies, as well as in the sphere of ecological audit and consulting;
- POLYINFORM was in a possession of novel and unique SOILEX technology for cleaning soil and water polluted by oil, petroleum products and other ecologically dangerous substances; this complex technology is based on special, progressive methodologies and on highly effective own biological preparations and sorbents;
- POLYINFORM carried out scientific research for improving technology and creating new preparations, develops its administrative structure.
- The technologies used by POLYINFORM had necessary patent protection;
- POLYINFORM had accumulated substantial experience in conducting practical works in many Russian regions, including both localization and liquidation of ecological impacts owing to oil spillages and remediation of soil;
- POLYINFORM had collaborated with Russian and foreign corporate structures that are also engaged in the field of environmental protection, took part in a number of joint pilot projects abroad as well as in a joint scientific research.

Presently the Russian Technology Fund stays in direct contact with the Management of POLYINFORM and believes that the Company has further developed its business since the last study conducted by the Fund and that it remains to be a reliable and competent partner in the sphere of environmental protection. The Fund might later consider a possibility of investing in the Company in which case additional detailed study of the POLYINFORM’s business would be conducted.

Dmitry N. Lisenkov
Investment Manager
The Russian Technology Fund

27 Engels Pr., building 12B, office 103, St Petersburg, 194156 Russia
Tel/fax.: +7 (812) 294 2506; +7 (812) 554 9384; Fax: +7 (812) 326 6191; email: info@itrf.ru
Report on the pilot project of pipeline diagnostics at the site "Kushan" Line (Xinjiang Province, China) of PetroChina West Pipeline Company

September, 10, 2012 representatives of POLYINFORM executed test technical inspection of main gas pipeline of PetroChina West Pipeline Company (West Pipeline) by the contactless magnetometric method with the help of KMD-01M system. The inspection was performed in the frames of hi-tech technologies transfer project, organized by Coway International TechTrans Co., Ltd (Beijing, China).

The diagnostics with the help of KMD-01M system allows distantly from the earth surface discover the places of the pipeline’s magnetic field anomalies, caused by deformations and inner stresses in the pipeline’s metal. Thus, the mentioned system allows judging about the technical state of the pipeline, including defining places with the loss of metal.

Earlier in December, 2011 Shenyang Polytechnic University executed inspection of the pipeline at the site Kushan (Kuerle-Malan) Line with the help of the eddy current method (in-tube inspection, “smart pig”). In June 2012, the Service Center for Scientific and Technical Information held control openings on this site.

In order to verify the reliability of KMD-01M, the Service Center for Scientific and Technical Information selected 2 places (sections 216 Km - 798m and 284m - 232km) for the control digging out.

November, 7, 2012 Coway International TechTrans Co., Ltd received the official report on the results of comparing mentioned above methods of pipelines inspection. Due to the big difference between the results of the measurement of anomalies types, this report compared the two methods only in their ability to identify sites with metal loss.

Results of the comparison of methods

The comparing of the ability to detect areas with metal loss found out that KMD-01M can find areas with a significant loss of metal, that are a threat to the future operation of the pipeline, as well as areas of stress concentration. The method of investigation of the stray fields of the magnetic field allows detection of very small metal loss (less than 5%), but can not detect the points of stress concentration.

Comparison of cost and safety of methods

KMD-01M system is simple and accessible, it has a low cost of detection, in its application does not cause any risk to the safe operation of pipelines as the diagnosis process does not affect the pipe and does not requires any changing the operating mode, or any preparation.

The eddy current inspection method (“smart pig”) has relative high cost and high risk.

Thus, the inspection of pipelines with the help of the contactless magnetometric diagnostics system KMD-01M can be considered as reliable, safe and commercially effective.

Zhaoping LIU
(Deputy General Manager)

Coway International TechTrans Co., Ltd
Date: 2012-11-07